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Commonwealth of Pennsylvania

REPORT

of the

Department of Mines

OF PENNSYLVANIA

PART 1-Anthracite

1927-1928

LETTER OF TRANSMITTAL

Department of Mines, September 5, 1929.

To His Excellency
John S. Fisher
Governor of Pennsylvania.

Honorable Sir:

I beg to submit herewith Part I of the report of the Department of Mines for the years ending December 31, 1927 and 1928. This report covers in detail the operations in the twenty-five Anthracite inspection districts as returned by the Inspectors.

Respectfully submitted,

W. H. GLASGOW

Secretary of Mines.

Harrisburg, Pa., September 5, 1929.

Honorable Walter H. Glasgow,
Secretary of Mines,
Harrisburg, Pennsylvania.

Sir:

I submit herewith a report covering the activities of the Anthracite Division of the Department of Mines for the years 1927-1928.

The statistical matter in the report is presented under the head of Counties instead of Mine Inspection Districts, as formerly. It is more logical and satisfactory to use the County as a unit as it is not as susceptible to change as is the Inspection District.

It is gratifying to state in transmitting to you the report of the activities of the Inspectors that they have at all times given to the Department the most hearty and intelligent cooperation.

Respectfully yours,

JOHN REESE JAMES

Deputy Secretary, Anthracite Division

REPORT

OF THE

DEPARTMENT OF MINES

INTRODUCTION

The production of anthracite in 1927 was 79,367,154 net tons and in 1928, 74,552,312 net tons. Since the year 1917, when production amounted to more than 100,000,000 tons, there has been with few exceptions a gradual annual decrease. The production at the present time is just about what it was twenty-five years ago. The decrease has been due to a variety of causes, principally mild winters, but other contributing causes, that will probably be permanent and must be reckoned with are oil, gas, and bituminous coal. All these competing fuels are being advertised extensively and placed before the public in a way to greatly increase their popularity.

The operators with a full realization of the conditions confronting them are now for the first time in the history of the industry making an appeal to the public, hopeful at least of retaining the present volume of trade. They seem to have entered upon a new era, with a new atmosphere and a new determination to meet the invading forces of opposition. The industry is confronted with several problems that must be solved, including sizing and preparation, publicity, further modernizing of equipment and furnishing the consumer a cleaner and more uniform class of coals. These problems have all been tackled vigorously and intelligently. It is to be noted, too, that a spirit of hopefulness and helpfulness seems to pervade all classes of people in the anthracite region who are directly interested in the welfare of the coal industry. Producers, mine employes and the general public, especially the business interests, have united in a movement of good will and common action for the common good. This movement is based upon the belief that the prosperity of everybody in the region depends upon the prosperity of the anthracite industry.

REORGANIZATION OF THE DEPARTMENT OF MINES

In compliance with the wishes of Governor Fisher, as expressed in his inaugural address, the Department of Mines was reorganized in order to give the mining industry the best service possible. The reorganization took effect July 1, 1927. A head of the Department, designated as the Secretary of Mines, was named and two additional Deputies were appointed to have charge, respectively, of the Anthracite and Bituminous Divisions, which heretofore had functioned directly under the Secretary of Mines. Four electrical inspectors were temporarily engaged, one of whom was retained permanently, whose duties were to examine in detail all enclosed electrical machinery in use in the gaseous mines and report the condition to the District Mine Inspectors.

Contact was made by the Secretary of Mines with National bodies interested in questions of freight rate regulations, mining legislation, mechanization of mines, Mine Rescue and Safety work, and education of those engaged in the mining industry. Close relations were established between the operating end of the industry and the Department of Mines with the object of reducing the accident toll and simplifying and standardizing the reports submitted by the operators to the Department.

MINE CATASTROPHES

WOODWARD COLLIERY CAVE-IN AND EXPLOSION

"Catastrophe" is the term applied to an accident in which five or more lives are lost. An accident of this kind occurred May 26, 1927, at the Woodward Colliery of the Glen Alden Coal Company, Edwardsville, Luzerne County, Pa., when a cave-in and explosion of gas caused the loss of seven lives. The report of the Inspector who investigated the accident is given below:

"Nine miners were at work cutting and loading coal on 9 west counter when the explosion occurred and the cave-in took place. In about fifteen minutes after the cave-in, a very severe concussion took place due to an explosion of gas.

After all the persons had been removed from the mine, the company mustered the officials from the other collieries of the company. Several of the mine inspectors who had heard of the accident reported to the mine and with the colliery workmen, descended the shaft to the Baltimore vein. We discovered stoppings, doors and one air bridge had been destroyed by the explosion. On the main haulage road considerable debris had been scattered about, trolley lines were down, stringers and props were lying about, many of them scorched. Two small fires were started by the explosion, but were easily extinguished. An effort was made to go in 10 west return which is only a short distance from 9 west counter where the three miners were working. The current in 10 west return was found to be highly explosive. An effort was made to reach 9 west counter from 9 west gangway. We found the passageways filled with coal and evidence of the squeeze still continuing. There was slight evidence of afterdamp; no smoke could be detected in the air. The fan was not affected by the explosion and was working at its normal speed. In the afternoon efforts were made to restore ventilation and the night was spent in cleaning and propping the principal

haulage road from No. 3 shaft to 8 west gangway. The men who had worked during the night reached the surface Friday at 5:40 A. M. At 6:00 A. M. an explosion occurred which destroyed the concrete fan drift on the surface. Fortunately there were no persons in the mine when this explosion took place. We believe the explosion occurred in the Baltimore vein; however, some are of the opinion that it occurred in the Hillman vein. It was then decided to build seals in the mine and to cover the shaft with a temporary seal. The shaft seal was completed at 2:00 A. M., May 28. On Sunday, May 29, at 1:35 A. M., a terrific explosion occurred which destroyed the shaft seal, lifting the steel tower from its foundation and in a leaning position clear of the shaft. The buildings connected with No. 3 shaft were more or less damaged, as well as the shaft concrete casing.

On May 31, the officials of the Glen Alden Coal Company with the State Mine Inspectors held a consultation at No. 3 shaft and decided to continue sealing, to isolate the workings of No. 1 Baltimore shaft and No. 1 Red Ash shaft from No. 3 shaft. These shafts are connected in several veins over a large territory. Three shifts with a large force of workmen are still engaged in building seals. Work on the returns is done with helmets. Carbon monoxide gas testers are carried on each shift.

On June 5, No. 3 shaft was again temporarily sealed. The seal has been strengthened gradually and has been completed for some time. The pressure is now up the shaft equal to 1.5 W.G.

Everything is being done to place the mine in condition to extinguish the fire which has been causing the explosions. The shaft casing which was cracked in many places allowed the gas to escape to the atmosphere. The rock filling around the shaft is being removed by a compressed air shovel and when a fracture is discovered in the shaft casing, a wood fibre quick plaster is used, which gives very good results.

No explosions have occurred since the explosion of May 29. The mine is now gradually filling with gas which is sufficiently high so that it does not support combustion. The carbon monoxide per cent still keeps high, but shows signs of gradually becoming less.

In conclusion it is my opinion that the squeeze occurred in Old 8 west gangway and finally extended to 9 west. The officials of the mine believe that the trouble was caused by the top coal or top Baltimore vein."

Owing to the conditions existing at this mine and the possibility that all danger had not been passed, the inspector was directed to make weekly inspections and report promptly to the Department. Five bodies of the victims of this disaster still remain in the mine notwithstanding the fact that the work of recovery has been carried on as continuously as possible under rather dangerous conditions ever since the accident occurred.

It is believed now that the last of the falls will soon be cleared away and such repairs made as will enable the officials of the mine to recover the bodies that have been entombed since May 26, 1927.

EXPLOSION OF GAS AT BALTIMORE NO. 5 COLLIERY HUDSON COAL COMPANY

Another catastrophe with very serious results occurred May 25, 1928, when an explosion of gas took place in the Red Ash vein of the Conyng-

ham shaft section, Baltimore No. 5 Colliery, Hudson Coal Company. Ten lives were lost in the explosion.

A report of the Commission appointed by the Secretary of Mines to investigate the cause of the explosion is printed herewith.

June 28, 1928.

Hon. W. H. Glasgow,
Secretary of Mines,
Harrisburg, Penna.

Honored Sir:

Herewith find report of the accident that happened on May 25, 1928 in the Red Ash Vein of the Conyngham Shaft Section of Baltimore No. 5 Colliery of the Hudson Coal Company.

The accident occurred in the section known as the second west gangway off No. 1 Slope extension in the Red Ash Vein. This section of the mine was a part of the former Hillman Shaft Colliery, an independent colliery acquired by the Hudson Coal Company a few years ago.

The Hudson Coal Company did not have mining rights in several important areas in this locality, having but a narrow strip that they could mine for a distance of about 300 feet (as shown on the accompanying print).

Owing to the failure to secure mining rights in this territory, it made it quite difficult to conduct the ventilation in the proper manner. The ventilation depended mainly on a door placed on the gangway at miner No. 5110's place and known as Mike Morga's door in the testimony.

There was also another door outside of this on the gangway in the pillar between No. 11 slope and slope airway which deflected the air current through the basin workings east of the slope, and then was brought back up the old No. 11 slope to the airway, from where it continued into the face workings along the barrier pillar where a booster fan was in operation. This second door, or the outside door, (as shown on the map) was not as important as the inside door, and if it was left open only short circuited the air from the dip workings, which, according to the testimony, was not of a gaseous nature, as gas had not been found in these workings.

The line chamber along the barrier above the airway (namely Miner No. 5104's place—George Oko) had been driven up a distance of 50 feet and had struck a roll or fault in the face; they had started to drive a cross cut in the bottom bench at the face and the coal, being of a very shaley nature, had run away up the pitch along the fault to a height of 30 or 40 feet. The place was timbered right to the face and a box brattice, or chute, had been put in to try and keep ventilation up into the cavity along the roll so as to keep it clear of gas.

After this chute had been installed it was found that there was not a sufficient amount of air to keep the cavity clear of gas, so an electric booster fan was put in to create a greater velocity and a vent tube attached to throw the air up into the cavity along the fault. This fan was put in behind a wing of brattice at the face of the airway (see sketch) and had been in use about three weeks.

According to the testimony of the Fire Boss Werner, gas had been found in large quantities in this place (the line chamber) every morning since the fan was put in, and that the gas had been removed by Werner by this electric fan. The fan being stopped at night allowed the gas to accumulate down to the top of the timbers, and Werner used to start the fan when he came to this place and blow the gas out before proceeding further with his morning examination.

According to his testimony, on the morning of the accident there was 25 feet of gas in the place, and he had stayed there after starting the fan for 25 or 30 minutes until the place was clear, or cleared within 2 or 3 feet of the roof in the high spot along the roll; this height being as high as he could reach.

After he had started the fan, and as he says cleared the gas out, he then proceeded to make his round and he reported the place and section clear of gas. The report book does not show any record of gas being found in this section on the day of the accident.

According to the testimony, the miners working in this section were using locked safety lamps and electric cap lamps. All firing was done by electric batteries, but black powder was used as the explosive. A battery motor was used as the means of haulage, and at the land line at the face of the gangway an electric booster fan had been installed and was running at the time the accident happened.

The commission, after visiting this section of the mines on several occasions for personal investigation and observation, and after interviewing witnesses and taking their testimonies, are of the opinion that the testimony of Jos. McLaughlin, the motorman, is the most important.

The testimony of Werner, the fire boss, shows that gas had been found the morning of the accident and that gas had been frequently found in the line chamber, or Oko's place; it was at or near the face of this place where the ignition took place. This is substantiated by the fact that the most evidence of flame and the destructive force of the explosion started from this place.

According to the testimony of the foreman Nolan, the fire boss, Werner, did not report gas in the place that morning, but reported it clear, and that he was not aware of the quantity of gas being found by Werner was of such a dangerous amount as Werner's testimony showed it to be.

The testimony of Assistant Superintendent Loftus and of Superintendent Lambert is to the effect that they were not acquainted with the actual conditions, as to the quantity of gas given off in this place.

Nolan's testimony shows that he was responsible for the installation of the electric fan, and that he states that the quantity of air was not sufficient to keep the place clear, hence he had the fan put in. He states he was there when the wooden box, or chute, was put in and "we had about 10,000 cu. ft. of air in there but it was not strong enough to keep that place clear." Note: See first page of Nolan's testimony.

The testimony as given to this point shows that gas had been found in this section on the day of the accident and several days prior to the accident, and that the officials were aware of the fact that gas was and had been found there, but that this gas had been cleared or brushed out by the starting of the electric fan and had not been reported. There is no testimony of the Mine Foreman Nolan, the Assistant Superintendent Loftus and the Superintendent Lambert to show that they

knew of the dangerous amount of gas that was found in this place for several days prior to and on the day of the accident. Each of these officials stated that they did not know the actual conditions. It seems from the testimony that the Fire Boss Werner was the only one who knew of the actual amount of gas given off in this place.

The testimony of the officials and the other witnesses does not throw very much light on what happened, or how the gas was ignited, as no one seemed to know the actual conditions of Oko's place until we had the testimony as given by McLaughlin, the motorman. He (McLaughlin) was the only survivor of all the men who were on the gangway road at the time the explosion occurred.

McLaughlin's testimony shows that he had taken out Mike Morga's car, and that the door at his place had been left open for several minutes; that during the time the door was open miner No. 5104, George Oko, came out to Morga's place and was talking to McLaughlin and the motor crew; and that Oko said he had just fired a hole in the cross-cut and had blown a lot of coal out on the road in front of his loaded car. He, Oko, asked to have an empty car placed in his place so that he could load up the coal; that it was not possible to run his loaded car out of the place until the coal had been loaded up.

McLaughlin sent Norton, his brakeman, in with Oko to see if the rope with which they pulled the car from the curve to the face was free to allow the empty car to be pulled up. Most of the time that this conversation took place Morga's door was open.

By perusal of the accompanying sketch showing the location where the bodies were found, it shows that Norton had gone in with Oko and had returned almost out to the motor. McLaughlin said that Norton and Oko had gone in together. The place where Oko's body was found shows that they had reached at least to his branch, if not to the face, and that Norton had returned and had almost reached the outside door when the explosion happened.

McLaughlin said that the door had been closed about two or three minutes when the explosion occurred and that he was on the motor and was blown off. The motor was between the two doors on the gangway at the time of the explosion, as the outside door was found in under the motor after the explosion and it appears as if the motor was moving out.

Possible causes of ignition:

1. The battery motor
2. Arc from electric fan
3. Defective lamps
4. Smoking or lighting matches
5. Ignition of gas from feeder left burning after blast in Oko's place was fired.

1st. In our opinion the battery motor did not ignite the gas, as it was 380 feet from the point where the gas was ignited.

2nd. The electric fan may possibly have caused the ignition of the gas, as it was in close proximity to the point of ignition and showed evidence of being in the path of the flame.

3rd. Defective lamps. We do not think that any lamp caused the explosion, as all of the lamps were removed from the mine intact.

4th. Smoking or lighting of matches. While some evidences of smoking were discovered in this section, it was very meagre, and from all the testimony given it seems very remote that smoking caused the explosion.

5th. Ignition of gas from burning feeder. We are of the opinion that the point of ignition was at or near the face of the land line chamber, Miner No. 5104, George Oko's place. We are of the opinion that after firing the blast that is mentioned in the testimony of McLaughlin, a feeder was lighted by this shot and was burning; that there was an accumulation of gas in the face of the cross-cut, or the high cavity along the rock fault; that due to the fan running it mixed the air with the gas at the high point, resulting in an explosive mixture; that upon the shutting of the door on the gangway outside of Mike Morga's chamber (which door on being left open short circuited the entire volume of air except that being generated by the fan directly behind the brattice and into the return) restored the ventilation to its normal course and brought the explosive mixture down into contact with the burning feeder, thereby causing the explosion.

Very truly yours,

THOMAS J. WILLIAMS
Inspector—11th District

D. T. DAVIS
Inspector—12th District

EDWIN C. CURTIS
Inspector—9th District

MINE FOREMEN'S AND ASSISTANT MINE FOREMEN'S EXAMINATIONS, 1927-1928

In 1927 the examinations of applicants for certificates of qualification as Mine Foremen and Assistant Mine Foremen were held in six districts designated by the Secretary of Mines on June 29 and 30. The places where the examinations were held, the Mine Inspectors in charge as Chairmen of the Examining Boards, and the successful applicants who were granted certificates by the Department of Mines, are as follows:

Place	*Chairman of Board*
ASHLAND	*JAMES QUIGLEY, MINE INSPECTOR, 22nd DISTRICT*

MINE FOREMEN

John Andrew Brennan, George V. Brecker, Edward F. Burke, William J. Byrne, Roland M. Culton, Edward J. Donahue, Harry Edwards, William Elsworth, James Fisher, Samuel Griffith, James H. Kane, Thomas Francis Kane, Thomas M. Kane, Frank Kopfinger, Bernard Edward Kramer, John Laukaitis, William Howard Lewis, Michael Joseph Mannion, William M. Manney, Jr., Peter W. McDonald, Joseph A. Morlock, Leonard Leo Noble, Thomas J. Reardon, Alex Rokos, Thomas I. Schickley, Arthur Boyd Singley, Charles F. Tighe, Thomas Walsh, William Joseph Wynne.

ASSISTANT MINE FOREMEN

Arthur William Aster, James Avelino, Leslie Arthur Batdorf, Henry Berger, Roman C. Berkoski, Charles R. Boyd, William A. Bramley, James E. Brennan, Jr., Edward J. Britt, Robert Johnston Burnett, Joseph B. Burntitus, John I. Campbell, Patrick J. Carey, Michael Dovci, John Francis DuBosky, John A. Dunlavey, Connie Ficca, Bart V. Flannery, Walter S. Fogell, William C. Frey, Anthony J. Gaughan, Ira Norman George, George Gessner, Nick Goretski, Patrick J. Haley, Walter E. Heyer, Elias Hopkins, Frank Horn, Russell Ellsworth Hubler, Benjamin Humes, Patrick J. Kane, Andrew Karlak, Peter Karvois, Salvadore M. Kerico, Robert Franklin Kiefer, Walter Knopp, Charles Koch, Michael Komcavage, Bernard Kopfinger, Joseph George Lahnstein, Jr., Lester Leroy Lapinsky, Alphonso Laughlin, Donald Laughlin, John Lazor, Carmac James Manley, James M. Manney, Harry Franklin Markel, James Martin, Fred John McCall, James A. McGill, Claud Hadesty Mervine, Charles A. Mitchell, Joseph J. Moran, Urbano Nicoletti, John Joseph O'Brien, William T. O'Brien, Robert James Penman, Hugh J. Phillips, Enoch Raskie, Myron Francis Reese, John A. Rice, John Rocoskie, Michael Ronack, Lambert J. Ruffing, Thomas Davies Samuel, John Joseph Sapp, Victor Scarnitskie, Clarence Schrepple, John Joseph Shecora, Adam Sheeler, Walter Shipman, George Carson Shoffstall, Joseph John Sincavage, John Philock Smith, Andrew Snyder, Wilbert C. Snyder, Anthony Strike, Harry Daniel Swartz, George A. Taylor, Otto F. Trefsgar, Mason Edwin Trefsger, Joseph F. Tuskosky, John Ushock, Joseph Valentine, John Velinski, Anthony E. Wasilewski, James Weikel, James Woods, Otto Yetski, Vincent Yuskowski.

HAZLETON — *DAVID J. RODERICK, MINE INSPECTOR, 15th DISTRICT*

MINE FOREMEN

John Augustin Boyle, Patrick J. Brogan, Edward J. Carter, Joseph Cartwright, James B. Cortese, William D. Davidson, Grant A. Davies, Jenkin Davis, Michael J. Gornal, Richard Hellon, Oliver S. Jenkins, Stephen Lawrence, Leopold M. Lescovitch, John Joseph Malloy, John Medvetz, Raymond W. Minnich, James Joseph Mulhall, John Petruska, Michael Senick, John F. Sharpe, Raymond Hall Shelley, Millard W. Stauffer, Charles M. Thomas, William Oscar Whitebread, George Washington Whiteneck, Joseph H. Winters.

ASSISTANT MINE FOREMEN

George Barron, Harry Jacob Becker, John Bitsko, Joseph Black, Eugene Blaner, Henry Kephart Boock, Peter Butchko, Oliver Grant Butterwick, Stanley Cierlitckey, Tony Cipriano, John Edward Conaghan, Thomas H. Corbey, George Crynock, Nicholas Dellisanti, Thomas Morgan Evans, Millard Filmore Fegley, Joseph Fellin, Patrick J. Ferry, John A. Fidishum, Charles Franklin Frey, John Paul Frimmel, Michael Fritz, William J. Gaffney, Peter Halko, Michael Joseph Hanley, Thomas D. Haughton, Casper J. Hayden, John Leroy Heller, William Henry Heller, Edwin R. Houser, Evan L. Jenkins, Arthur D. Jeffreys, Foster Ananiah Job, John Kannuck, Harold R. Karchner, Walter

Charles Karchner, Arthur H. Koch, Joseph Kollessar, John Kostick, Anthony F. Kupectz, Joseph Francis Lee, Thomas Marshall, Milford McElmoyle, John McFadden, Frank J. McHugh, John McNelis, Thomas P. McNelis, William Meyers, Jr., Edward Roy Miller, Edward F. Mulligan, Stephen J. Novotnay, Edward J. O'Donnell, James Penberth, Frank J. Poklemba, Albert E. Reese, John Reobold, John A. Reshetar, John Wilbert Ronemus, Thomas R. Rosser, Eugene Richard Rossi, Peter Sartone, John Saxon, Anthony Schriebmire, Edward Skulsky, Henry James Steimling, Melvin L. Straub, Harry Sube, Lewis Thomas Uckno, Gustav Julius Voth, John R. Williams, Martin G. Woodworth, Stephen Yencha, Joseph Zmuydin.

NANTICOKE — *FRANK KETTLE, MINE INSPECTOR, 13th DISTRICT*

MINE FOREMEN

William Wynn Everett, Edward Vincent Gallagher, Joseph Golembeski, Edward Aaron Keiser, Frank E. Kielar, Harry Wagner Lutz, William E. Morris, Stanley L. Nichols, Ernest Albert Ogin, Harry Merton Ruth, George Strickland.

ASSISTANT MINE FOREMEN

Jack Crackett, Glyndwr Davies, Stanley Delestowicz, William Dobson, Joseph Egri, Andrew Gibala, Thomas John Hughes, Richard James, Thomas Glyn Jenkins, Clifford Jones, John Kane, Lawrence W. Kulp, David William Lewis, John William McCloskey, Peter Vincent McLaughlin, Charles William Naugle, Henry W. Nork, Bruce William Ogan, Henry James Ormandy, Thomas Price, Andrew Ezio Querci, William Rachunas, Gordon Reese, Gordon Albert Richards, James Sanders, Clyde Saxton, Gordon J. Simonson, Thomas Henry Spacey, Anthony Charles Sponauer, John F. Stone, Jacob Swanbery, Roy Edward Swanbery, David Thomas, George Tomek, Anthony Urban, Patrick Thomas Wallace, William Campbell Wallace, Clifford Burton Wilson, John Whelan, Peter Yunevitch.

POTTSVILLE — *CHARLES G. FROMME, MINE INSPECTOR, 19th DISTRICT*

MINE FOREMEN

Edward G. Lloyd, Albert Morgan, Andrew Jackson Morgan, Joseph M. Walsh.

ASSISTANT MINE FOREMEN

Howard W. Adams, Raymond H. Artz, Charles Martin Ball, John Elkin Bohr, John J. Breslin, Martin Buggy, James Thomas Clough, Arthur Jeremiah Davis, Ralph Andrew Ditzler, Eamil Fromme, George Gottschall, Walter Raymond Harman, Edgar Heberling, Clarence D. Herb, Roy Elmer Hesser, Clyde Jefferson, Cleon C. Klinger, George Henry Long, James Benedict McDonald, Michael V. McDonald, Francis Joseph McGovern, John Henery Medvic, John H. Miller, Robert Morgan, Robert W. Noah, Francis O'Connor, John Ondeck, Harry Dewey Schminky, Thomas H. Stephens, Michael Tokarick,

Charles Tomchany, Peter H. Troutman, Emmett R. Ward, John Ward, John H. Willier, Charles J. Winterer, Albert Woodford, Louis Yesville.

SCRANTON — *DAVID T. WILLIAMS, MINE INSPECTOR, 6th DISTRICT*

MINE FOREMEN

Harry Abbott, James Abbott, David Stewart Anderson, Stewart Alexander Bennett, Albert Edward Berry, John Boland, Frank A. Bonner, Lowther Tennant Brown, Harry Michael Bulger, Robert Burns, John William Burton, Matthew Leo Cavanaugh, John Joseph Clifford, Daniel V. Conniff, Anthony James Earley, Frederick George Eaves, William John Fletcher, John Gardner, Anthony Garlinsky, Joseph Garrett, Francis Edward Gately, Owen H. Golden, Joseph J. Haberthier, Harry Lester Hardenstine, Ralph Henry Harvey, John Leonard Helms, William Hooper, Abel Howarth, James Wilbur Howell, Hubert Hoyes, William Henry Hurst, William St. John Inman, Herbert Edgar James, John Patrick Jennings, Sofus Marins Jensen, Thomas Johnson, William Colenso Jones, James Theodore Kell, John G. Kell, Daniel George Kelly, Harry James Labaranti, Herbert Eli Levalley, Foster James Lutey, Wilfred P. Mackle, Augustus W. McDade, Jr., Michael J. McGraw, James McHugh, Fred Milner, George B. Morris, Thomas Robert Moses, Alexander Muncie, Edmund O'Brien, Edward Orr, Harold William Owens, David Thomas Parry, George William Parry, John Patterson, William John Pearce, George Purdy, Edward Francis Race, John James Reap, Everett Rodman Reese, Steven Regenye, Edward Dutton Reid, Joseph Lee Reynolds, Jr., John Richards, Edward Isaac Robson, Alfred James Rodway, Arthur Edward Singer, Frank E. Smith, Joseph E. Speicher, Henry Strubeck, Vincent Peter Swartz, William H. Swartz, Peter Sylvester, Daniel Thomas, William Gordon Thomas, James Wardley Trevitt, Albert Victor Van Horn, Domenic Vecchi, John Vitalie, Robert Kenneth Von Storch, Joseph A. Walsh, Michael Walsh, Ralph C. Weber, Arthur William Welton, George White, Henry Wiesenmiller, John Wright, Andrew Yuhasz.

ASSISTANT MINE FOREMEN

John Francis Barron, William Biglin, Daniel Chambers, Joseph J. Davey, John Kraynak, William Edison Margetson, Edward Jacob Moon, Arnold Frederick Moore, Joseph P. Mullen, Henry Harrison Null, Stephen Pawanda, Thomas Francis Powell, Thomas Rogers, Joseph Subliskey, Frank J. Sullivan, William Vasey, Albert John Williams.

WILKES-BARRE — *T. J. WILLIAMS, MINE INSPECTOR, 11th DISTRICT*

MINE FOREMEN

Joseph Davies, Edward Taylor Edwards, John C. Flanagan, James Chapman Gardiner, Albert Warren Hack, William Keirle, David Thomas Kitchener, Ray P. Lewis, James A. Lloyd, James McGrew, Jacob Frederick Miller, James Moffat, Joseph Shymanski, Max J. Subsack, Daniel Reese Thomas, Elmer Williams.

ASSISTANT MINE FOREMEN

Leo George AllBert, William Arthur, Jr., Robert Austin, Elmer J. Banta, Matthew Barnes, Gavin Fletcher Barr, John Bisset, William Black, William H. Booth, Joseph Borkowsky, George Brodie, John Joseph Brown, Edward G. Burke, John Cameron, John J. Casey, Patrick Joseph Clune, Felix M. Conniff, Charles Joseph Connor, Louis Joseph Conway, Frank Cook, William Davies, Leo Davis, Vincent Devine, Patrick Dougherty, Allan P. Erickson, William Evans, William Francis, James T. Gartley, James Joseph Gavin, Francis Patrick Gerrity, John Gettinger, John Henry Gibbons, Robert Gibson, Anthony Gill, Frank Handley, James Harfman, Thomas Brinley Harris, George W. Hayes, John Hepburn, Andrew Hudick, Morris Hughes, Jr., John Ivon James, Fred E. Jenkins, Raymond Thomas Jenkins, Isaac Jones, Willard Lane, Frank C. Lipski, Anthony Malonis, James A. Marshall, Morgan M. Miles, Eugene Miller, William Joseph Moore, David Morgan, Edgar Morgan, Evan J. Moses, John Peter Murphy, William Lewis Owens, Leslie Pearson, Charles C. Pennington, Thomas Halliday Phillips, Arnold Philpotts, Paul Phillip Porter, Thomas Powell, Griffith Pritchard, Stanley Peter Rice, David D. Robertson, Robert Rowlands, Stanley J. Siberski, Lewis Albert Skok, Frank Smith, Louis Superko, Joseph Stanley Swinski, Jechonias Thomas, Ernest A. Van Why, Bartlett J. Waite, Maurice Wendel, Calvin Williams, William Edwin Williams.

In 1928 the examinations were held in six districts, April 10 and 11.

Place	*Chairman of Board*
ASHLAND	*JAMES QUIGLEY, MINE INSPECTOR, 22nd DISTRICT*

MINE FOREMEN

Wesley Robert Brassington, James Edward Brennan, Jr., James Bryson, John Burke, John J. Chapman, Stephen Chornack, Edward J. Devine, Edward J. M. Diehl, John Gallagher, Thomas Graham, Patrick J. Kane, John F. McCauley, William McNelis, Harry Simpson Mutchler, Alonzo Neal, Enoch Raskie, Myron Francis Reese, Squiro Johnson Spelding, Harry Daniel Swartz, Cornelius A. Watkins, Henry G. Willard, William J. Williams, James Woods.

ASSISTANT MINE FOREMEN

William Allen, Peter Andrulewicz, George W. Berger, Ignatius Edward Brennan, John Burnoskie, Joseph J. Carroll, Joseph Chornack, Fred D. Colross, Walter J. Cress, Edward Joseph Curley, David Daniels, Frank Joseph Dettrey, Edward M. Donohue, Michael Joseph Dugan, Charles Raymond Duncheskie, John Farrell, Charles Henry Fertich, William H. Flanagan, John P. Garvey, Stanley Francis Gudaitus, William Guise, Isaac Gulliver, Charles Joseph Hirsh, James Hodges, Joseph H. Jefferson, Clarence Jones, Earl Michael Klees, Luke Kupchinski, Patrick Andrew Lally, Edward Vincent Larkin, John Mallick, Michael Masalko, Frank James McCafferty, James McGill, George T. Mecabe, Gus Michalski, Bolich Misavage, James Ramond Muldowny, Daniel Francis Munley, Howard Leo Murray, Andrew

Nemeth, John S. Novitskie, Leo Oshinskie, Charles Victor Paul, George Petrouskie, John J. Revels, Evan Davies Samuel, George Franklin Shaffer, Stanley Eddy Shalongo, Joseph Andrew Shopple, Marshall J. Smith, John Allen Spears, Frank Subach, Levi Zuinglius Swinehart, Lewis Tersavige, William Vincent Walsh, George Henry Williams, Thomas Edward Wolfgang, Barney B. Wydra.

HAZLETON — *DAVID J. RODERICK, MINE INSPECTOR, 15th DISTRICT*

MINE FOREMEN

Harry Jacob Becker, Peter Butchko, Oliver G. Butterwick, John Chire, James Jerome Clark, Robley D. Emanuel, Joseph Fellin, John A. Fidishun, Charles Franklin Frey, James R. Glennon, Thomas E. Glennon, Stanley James Harlor, Casper Hayden, John S. Hennick, Wilfred Henry Howard, Walter Stanley Jones, John Kannuck, John K. Kish, William Charles Kistler, Arthur H. Koch, John Labance, Joseph Francis Lee, Stephen J. Novotney, Daniel Ray Sachs, John Saxon, Daniel Suitch, Jr.

ASSISTANT MINE FOREMEN

Fred A. Bellhorn, Daniel Arner Bloss, Amos D. Brosious, William J. Brimmer, Balant Budna, John J. Carpenter, Charles H. Clements, Neil J. Conahan, Michael Condor, Thomas C. Coombe, William Brynley Davies, John Demko, Jr., John Dougherty, Thomas Fairley, Steve Gregor, William Harvey, Adam Hyduchek, David Jonathan Jones, Frank Keast, William George Kelps, Casper Kirchdoerfer, Charles Kish, John J. Laganoski, Joseph F. Mahalick, John E. Mars, Charles V. McGeehan, William Roy McCurley, George Mitchell, Leonard Branch Newton, George Novotnak, Anthony J. Nowak, Bernard O'Donnell, Stephen Oracko, Joseph Potochney, Hopkin Rees, William F. Rudewick, Michael Sabol, Wilfred Semmens, John J. Shearon, William L. Shinton, John Soda, George Tomko, George Bernard Uricheck, Robert E. Watkins, John Yalch, Nicholas Yalch.

KINGSTON — *THOMAS J. WILLIAMS, MINE INSPECTOR, 11th DISTRICT*

MINE FOREMEN

Norman Frederick Becker, John Bennett, William E. Booth, Edward G. Burke, William John Davies, John Lindsay Dunsmuir, Edward Paul Flynn, Robert Fulton, George P. Gallagher, Jr., Frank Handley, John Hepburn, John M. Hislop, Morris Hughes, Jr., William Hughes, Raymond Thomas Jenkins, Michael Albert Kielty, Thomas F. Kielty, George Kneise, Albert D. Kocher, Henry Dewitt May, Randolph M. Monteith, Edgar Morgan, Howard Stanton Oster, John W. Powell, Michael Rocko, Adam G. Ryscavage, Joseph Stanley Swinski, Ewart Emlyn Thomas, Herman B. Thomas, Floyd C. Williams, Thomas E. Williams.

ASSISTANT MINE FOREMEN

George Bennett, Frank Bigoski, John Brieling, John Bryce, Arthur H. Buffton, Francis Gerard Burke, Francis Lawrence Caffery, Bernard

Cairns, Benjamin Casner, John Cooper, Nelson Cottle, Michael Joseph Coval, Francis G. Daily, Vincent Dauksys, Patrick Joseph Dougherty, Harry Frey, Lawrence P. Heffers, Islwyn Jones, Raymond Jones, Sheldon Lewis Jones, Alexander Fisher Jordan, Joseph Kita, Wilbur Lewis Kresge, Mike Kuzmak, Gray Lacey, Sydney J. Lawrence, Thomas Lodwick, Steve Mergo, Clifford William Milsom, Joseph Miscavage, John Vincent Moran, Samuel G. Moseley, Rhys E. Pritchard, Andrew M. Prohaska, Ralph Ravert, Harry Reed, Garfield Roberts, Henry R. Rosnick, Morgan Lewis Sanders, Stanley Scovitch, Hugh Bruce Simpson, Ernest F. Smith, Harold Symons, Mike Venglosky, Joseph George Wall, Robert J. Williams, William John Williams, John Arthur Withey, Anthony Yesonis.

NANTICOKE — *FRANK KETTLE, MINE INSPECTOR, 13th DISTRICT*

MINE FOREMEN

Hiram George, Andrew Gibala, Arthur Gray, John Kane, David William Lewis, William H. Mooney, Frank B. Nash, John Raub, George M. Reese, Elmer Shaw, Thomas Henry Spacey, Roy E. Swanbery, Howard Williams, William Woodland.

ASSISTANT MINE FOREMEN

Willard Allabaugh, William Bartlett, John N. Bittenbender, Benjamin Bloom, David Boyce, Joseph Brinzo, Charles Burrier, Charles Caley, Charles Cannon, John Carpenter, Meredith William Davies, Leon Ekker, Christopher Garrahan, Harold Harmer, George Hill, Ralph Hillard, Frederick R. Holbrook, William G. James, Robert W. Jenkins, Leonard Kaminski, Richard C. Kashner, Harry Krapf, George Kunigonis, Joseph S. Linkiewicz, Edward F. Maxwell, Martin McDermott, Frank B. Meshinski, Robert M. Muir, Ray Noss, Peter Novack, John O'Rourke, John J. O'Rourke, William T. Palmer, Freas Y. Partington, Frank Phillips, William Phillips, Frank J. Pleban, Stanley E. Pleban, John Pokrywa, George W. Reed, Thomas E. Ruck, Clemens A. Sergott, Charles Shaw, Bolish Shimaleski, Stanley Skladzien, John Soley, Michael Steeber, Edward Strickland, Joseph Syryca, Robert C. Thomas, William G. Thomas, Charles Wermuth, Ivor L. Williams, John J. Williams, Edward Wysocki, John J. Zigmantavage.

POTTSVILLE — *CHARLES G. FROMME, MINE INSPECTOR, 19th DISTRICT*

MINE FOREMEN

Isaac Henry Adams, David E. Beveridge, Richard Casey, Lincoln Oliver English, James Norbert Farley, Edward Faust, Joseph M. Flanigan, Albert G. Hoffman, Melvin Peter Hughes, James J. Kreitzer, Arthur J. Luxton, Michael Vincent MacDonald, John Marley, Marvin H. Martin, John Ondeck, Thomas M. Radel, Thomas H. Schreffler, Thomas H. Stephens, Henry H. Sterling, David Thomas.

ASSISTANT MINE FOREMEN

Emery F. Artz, Roy E. Artz, Fred Averill, Thomas F. Buggy, Carl W. Bush, George Bushick, John F. Connor, Elias Davis, Norman Benjamin Delp, Lyle Cyril Devers, George I. Erbe, Elmer Fahnestock,

George Feher, John Alfred Gottschall, Michael Haley, Robert H. Hand, William Hoover, William Henry Hughes, Paul James, Walter H. Jones, John Juritsko, Frank Kachura, John Kaloveak, William Joseph Kane, Frederick G. Keich, Emerson Kimmel, Valentine Thomas Klein, Jr., Frank Klocek, Leo McCready, John J. McGurk, Joseph J. Motto, William Elisha Murton, John J. Nolan, James D. Phillips, Joseph A. Pogera, Zigmund Puklavage, Paul Riffon, Roy Robertshaw, Andrew Romanavage, William Romberger, Warren H. Schaeffer, Robert O. Schneider, Elmer H. Schucker, Ray Edgar Showers, Charles F. Simmet, Thomas Edward Smich, David Joseph Smith, Horatio Hunter Watson, John Edward Williard, David Daniel Workman, Herbert Allan Zerbe, Leon Peter Zilker.

SCRANTON *D. T. WILLIAMS, MINE INSPECTOR.*
6th DISTRICT

MINE FOREMEN

Charles Agantovich, Frank Appon, Joseph Badman, Daniel R. Baileys, Brinford Robert Brock, John Willard Buch, Stanley Burke, Francis Patrick Burns, Joseph John Cecil, Joseph Patrick Clark, Sterling Keith Conkey, William Leo Cummings, Richard Dale, Frederick Davis, Herman Davis, Vincenzo De Angelis, John Wright Diamond, George Dobbie, John A. Dutchman, Peter Joseph Flynn, William Freeman, James Joseph Gallagher, James Gaul, George Gavenda, Leon Joseph Gavin, Edward Francis Griffin, John Heritcsko, Michael G. Hiznay, Stephen Hockaday, Peter Hughes, Thomas H. Jenkins, Everett M. Keen, Joseph Koval, Bernard Krakowski, Robert Laird, John Thomas Lapper, William Isaac Lewis, Clarence Frederick Linde, William Edward Locke, Joseph Lynch, Thomas Raymond Lynch, Alexander Ross MacKean, John William MacKenzie, Frank George Mako, Edward Malia, Gilardi Mariotti, John Aloysius Marley, John Sidney Marshall, William James Martin, Anthony McAndrew, John Francis McColligan, Bert Maze McDonald, Patrick J. Meehan, John Andrew Metro, Peter Minaka, Thomas Francis Murray, Joseph Nixon, Joseph Olivetti, Frank Passarelli, Abraham Pearson, Jr., Alexander Przekop, Alexander Pucilowski, Theodore Davis Rees, Clarence Gleason Reese, Albert Victor Rowlands, Henry Schuster, Carl H. Seeling, Stanley Joseph Skutack, John Smith, Jerry Fahringer Stanton, Robert Henry Stark, John Edward Stein, Griffith Lewis Williams, Willard LeRoy Yates.

ASSISTANT MINE FOREMEN

James Allardyce, Percy Maxwell Cassidy, Michael John Chimelski, Charles Davis, Earl Hall, William Hitchings, William John Jones, Peter Krohto, Emil Laub, Anthony James Munley, Donald Archibald Nicholas, Jason Eugene Niemeyer, Robert Francis Reilly, Lewis Donald Richards, Charles Savage, George Allison Stenzhorn, Wesley Irvin Stonebraker, Edward Moses Thomas, Frank Uronis, William James Westington.

I. ACCIDENTS

A—Causes of Fatal Accidents, by Counties, 1927

Causes	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Susquehanna	Wayne	Total
Inside										
Falls of coal at face				4	11	2	13			30
Falls of coal at pillar work				3	7		3			13
Falls of coal on gangway					2		1			3
Falls of coal in old workings					1					1
Falls of coal in chute							1			1
Falls of coal in heading			1							1
Falls of slate at face					2	5	4			11
Falls of slate at pillar work					1		3			4
Falls of slate on gangway					1					1
Falls of slate in chute						1				1
Falls of roof at face	1			30	37	6	4			78
Falls of roof at pillar work				24	20		3	1		48
Falls of roof on gangway				9	14	1	2			26
Falls of roof in cross-cut				1	1					2
Falls of roof in old workings					1					1
Falls of roof in chamber							1			1
Cars on gangway	2		2	12	16	7	4			43
Cars on slope					3		1			4
Cars in chamber				1						1
Cars in airway, heading				3						3
Cars on plane				1						1
Explosions of gas in chamber					16		13			29
Explosions of gas in chute	2						5			7
Explosions of gas on gangway				4	2	2	3			11
Explosions of gas on slope				2	4					6
Suffocation from gas		1	1			4	3			9
Explosions of dynamite	1			2	1		2			6

Blasts, premature or otherwise			1	12	21	4	14	1		53
Falling down shaft				1	2		1			4
Thrown against cage					1					1
Electricity on slope, gangway				2	1	1	2			6
Crushed at battery in chute	1									1
Animals					1					1
Machinery				1						1
Falls of persons	2	1			3	1	3			10
Rush of coal in chamber	1	2			4	1	11			19
Struck by rock from gob				1	1					2
Struck by coal that he was barring down				1						1
Falling objects					2	1	1			4
Struck by timber dislodged or being handled				1	2					3
Struck head against trolley wire				1						1
Struck by tail rope				1						1
Caught by steel rail					1					1
Cut shoveling coal—infection				1	2					3
Hernia—lifting prop				1						1
Fractured ribs—cause unknown				1						1
Total	10	4	5	120	181	36	98	2		456
Outside										
Mine cars				1	2	2	2			7
Railroad cars				1	2	1	1			5
Machinery					1		3			4
Electricity				1	2		1			4
Rush of culm			1			1				2
Falling objects					1		1			2
Blast				1			1			2
Struck by barrel of oil				1						1
Struck by timber					2					2
Struck by pulley					1					1
Fall of person				2			1			3
Fall of rock stripping					1					1
Caught by rope					1					1
Hernia—lifting							1			1
Total			1	7	13	4	11			36
Grand total	10	4	6	127	194	40	109	2		492
Percentage	2.03	.81	1.22	25.81	39.43	8.13	22.16	.41		100

A—Causes of Fatal Accidents, by Counties, 1928

Causes	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Total
Inside										
Falls of coal at face	3			3	9	2	8			25
Falls of coal at pillar work			1	5	11		5			22
Falls of coal on gangway					1		6			7
Falls of coal in chamber					4					4
Falls of coal in heading				1		1				2
Falls of slate at face					2	6	4			12
Falls of slate in chamber					4					4
Falls of slate on gangway					2	1	1			4
Falls of roof at face				20	23	5	6	2		56
Falls of roof at pillar work	1			25	25		6			57
Falls of roof on gangway	1			5	15	2	4			27
Falls of roof in heading				3	1					4
Falls of roof in chamber				1	14	1	2			18
Falls of roof on slope					1					1
Cars on gangway or tunnel	1			7	22	4	7			41
Cars in chamber				1						1
Cars on plane					1					1
Cars on slope					2	1	2			5
Explosions of gas at face	1				4		2			7
Explosions of gas in chute					1		1			2
Explosions of gas in chamber					16	1	3			20
Suffocation from gas					2		3			5
Explosions of powder and dynamite					3		2			5
Blasts, premature or otherwise	2			12	9	2	1			26
Suffocation from fumes from shot					1		1			2
Falling down shafts, slopes	1			1	2	1	2			7
Objects falling down shafts					1					1

Caught by cage in shaft					3		1			4
Falling down chamber		1			3		3			7
Electricity on gangway				2	3		1			6
Animals					2		1			3
Caught in tugger car hoist					1					1
Caught in pumping machinery				1						1
Cut—infection				1	4					5
Drowned in sump						1				1
Found dead at face of idle chamber									1	1
Over-exertion							1			1
Platform broke—fell					1					1
Ran against halter chain in stable					1					1
Rush of coal, mud and water—chamber					3		5			8
Struck by timber dislodged or being handled				2	2					4
Struck by coal that rolled down chute				1		1				2
Struck by coal he was barring down						1				1
Thrown from car on slope					1					1
Total	10	1	1	91	200	30	78	2	1	414
Outside										
Mine cars	2			4	4		4			14
Railroad cars				3	1					4
Machinery				2	2		2	1		7
Blast stripping						1				1
Caught by carriage, top of shaft					1					1
Caught by wrench and side of car				1						1
Fall of person							1			1
Rush of culm				1			1			2
Struck by timber							1			1
Struck by rock and clay from bank				1						1
Total	2			12	8	1	9	1		33
Grand total	12	1	1	103	208	31	87	3	1	447
Percentage	2.69	.22	.22	23.04	46.53	6.94	19.47	.67	.22	100.00

B—Accidents in Which Five or More Persons Were Killed, 1847-1928

Date			Name of colliery	Location of colliery	Cause of accident	Killed
1847	Feb.		Spencer	Pottsville	Explosion of gas	7
1869	Sept.	6	Avondale	Plymouth	Mine fire	110
1870	March	22	Potts	Locust Dale	Boiler explosion	5
	Aug.	10	Heins and Glassmire	Middleport	Cage falling down shaft	9
	Aug.	29	Preston No. 3	Girardville	Car falling down slope	7
1871	May	27	West Pittston	West Pittston	Suffocation by smoke from burning breaker	20
	Oct.	2	Otto Red Ash	Branch Dale	Explosion of gas	5
1873	June	10	Henry Clay	Shamokin	Explosion of gas	10
1877	May	9	Wadesville	Wadesville	Explosion of gas	7
1878	Jan.	15	Potts	Locust Dale	Explosion of gas	5
1879	May	6	Audenried	Audenried	Explosion of gas	6
	Nov.	2	Mill Creek	Mill Creek	Explosion of gas	5
1880	May	3	Lykens Valley	Shamokin	Explosion of gas	5
1882	May	24	Kohinoor	Shenandoah	Explosion of gas	5
1884	Aug.	21	Buck Ridge	Shamokin	Mine fire	7
1885	April	6	Cuyler	Raven Run	Fall of roof	10
	Aug.	11	West End	Mocanaqua	Suffocation by gas from boiler fire	10
	Oct.	21	Plymouth No. 2	Plymouth	Explosion of gas	6
	Dec.	18	Nanticoke No. 1	Nanticoke	Inrush of quicksand	26
1886	Aug.	30	Fair Lawn	Scranton	Explosion of gas	6
	Sept.	13	Marvine	Scranton	Suffocation by gas	8
	Nov.	26	Conyngham	Wilkes-Barre	Explosion of gas	12
1887	April	27	Tunnel	Ashland	Suffocation by gas	5
	Oct.	1	Bast	Big Mine Run	Explosion of gas	5
1889	May	9	Kaska William	Middleport	Car falling on cage in shaft	10
1890	Feb.	1	Nottingham	Plymouth	Explosion of gas	8
	March	3	South Wilkes-Barre No. 3	Wilkes-Barre	Explosion of gas	8
	April	2	Susquehanna No. 4	Nanticoke	Explosion of gas	5
	May	15	Jersey No. 8	Ashley	Explosion of gas	26
1891	Feb.	4	Spring Mountain No. 1	Jeanesville	Drowned by water from old workings	13
	Oct.	23	Richardson	Glen Carbon	Suffocation by gas	7
	Nov.	8	Susquehanna No. 1	Nanticoke	Explosion of gas	12
1892	April	20	Lytle	Minersville	Drowned by water from old workings	10
	July	23	York Farm	Pottsville	Explosion of gas	15
1893	April	1	Neilson	Shamokin	Mine fire	10
	June	22	Susquehanna No. 1	Nanticoke	Explosion of gas	5
	Sept.	21	Lance No. 11	Plymouth	Explosion of gas	6
1894	Feb.	13	Gaylord	Plymouth	Fall of roof	13
	July	17	East Sugar Loaf	Stockton	Explosion of powder and dynamite	8
	Oct.	8	Luke Fidler	Shamokin	Mine fire	5
	Oct.	11	Henry Clay	Shamokin	Boiler explosion	6
1895	Feb.	18	West Bear Ridge	Mahanoy Plane	Explosion of gas	5
	Oct.	7	Dorrance	Wilkes-Barre	Explosion of gas	7
1896	June	28	Twin	Pittston	Fall of roof	58
	Oct.	29	South Wilkes-Barre No. 3	Wilkes-Barre	Explosion of gas	6
1897	Jan.	13	Wadesville	Wadesville	Crosshead falling down shaft	5
	Sept.	28	Jermyn No. 1	Rendham	Mine fire	5
	Oct.	30	Von Storch	Scranton	Mine fire	6
1898	May	26	Kaska William	Middleport	Drowned by water from old workings	6
	Oct.	1	Midvale	Wilkes-Barre	Mine fire	5
	Nov.	5	Exeter	West Pittston	Car falling on cage in shaft	9
1900	Nov.	9	Buck Mountain	Mahanoy City	Explosion of gas	7
1901	Oct.	25	Buttonwood	Plymouth	Explosion of gas	6
1902	Nov.	29	Luke Fidler	Shamokin	Explosion of gas	7
	Dec.	9	South Wilkes-Barre	Wilkes-Barre	Explosion of powder and dynamite	5
1904	Jan.	30	Maple Hill	Mahanoy City	Explosion of powder and dynamite	5
	May	5	Lance	Plymouth	Explosion of powder and dynamite	5
	May	5	Locust Gap	Locust Gap	Mine fire	5
	May	25	Williamstown	Williamstown	Suffocation by gas from mine locomotive	10
	Nov.	2	Auchincloss	Nanticoke	Falling down shaft	10
1905	Feb.	18	Lytle	Minersville	Fall of roof	5
	March	9	Clear Spring	West Pittston	Falling down shaft	7
	April	26	Conyngham	Wilkes-Barre	Falling down shaft	10

B—Accidents in Which Five or More Persons Were Killed, 1847-1928—Concluded

Date			Name of colliery	Location of colliery	Cause of accident	Killed
1906	May	15	Shenandoah City	Shenandoah	Explosion of powder and dynamite	7
	Aug.	6	Susquehanna No. 7	Nanticoke	Explosion of gas	5
1907	March	2	Holden	Taylor	Explosion of gas	7
	June	18	Johnson No. 1	Priceburg	Explosion of gas	7
1908	May	12	Mount Lookout	Wyoming	Explosion of gas	12
	May	13	Prospect	Midvale	Fall of roof	5
	July	15	Williamstown	Williamstown	Explosion of powder and dynamite	6
	Aug.	28	Warrior Run	Wilkes-Barre	Mine cars	6
1909	March	2	Pennsylvania No. 14	Pittston	Explosion of gas	8
	Nov.	9	Auchincloss	Nanticoke	Mine fire	9
1910	Jan.	11	Nottingham	Plymouth	Explosion of gas	7
	March	12	South Wilkes-Barre No. 5	Wilkes-Barre	Explosion of gas	7
1911	April	7	Pancoast	Throop	Mine fire	72
	May	27	Cameron	Shamokin	Explosion of gas	5
	Sept.	12	Marvine	Scranton	Mine cars	5
	Oct.	3	Drifton No. 2	Freeland	Cave-in	5
1912	Jan.	9	Parrish	Plymouth	Explosion of gas	6
1913	Aug.	2	East Brookside	Tower City	Explosion of gas	30
1914	May	29	Maryd	Maryd	Overwinding of cage	6
	Sept.	16	Lehigh No. 4	Lansford	Explosion of gas	7
	Dec.	9	Diamond	Scranton	Falling down shaft	13
1915	Feb.	17	Prospect	Wilkes-Barre	Explosion of gas	13
1916	Feb.	8	Lance No. 11	Plymouth	Explosion of gas	7
	March	9	Hollenback No. 2	Wilkes-Barre	Explosion of gas	6
	Aug.	8	Woodward	Edwardsville	Explosion of gas	8
1919	June	5	Baltimore No. 5 (Baltimore Tunnel)	Wilkes-Barre	Explosion of powder and dynamite	92
	July	8	Lansford	Lansford	Explosion of gas	8
1921	March	9	Bahn	Seek	Explosion of gas	5
1922	Nov.	3	Eddy Creek	Scranton	Premature explosion of blast	6
1923	Feb.	21	Alliance	Middleport	Explosion of gas	5
	June	26	Richards	Mount Carmel	Explosion of gas	5
	Dec.	8	Mount Jessup No. 2	Jessup	Fall of roof	5
1924	June	6	Loomis	Nanticoke	Explosion of gas	14
1925	May	22	Woodward	Edwardsville	Explosion of gas	7
	Aug.	3	Dorrance	Wilkes-Barre	Explosion of gas	10
1926	May	6	Randolph	Port Carbon	Explosion of gas	5
	July	3	Pettebone	Kingston	Explosion of gas	7
	Oct.	30	Susquehanna No. 7	Nanticoke	Explosion of gas	9
1927	May	26	Woodward	Edwardsville	Fall of roof, followed by explosion of gas	7
1928	May	25	Baltimore No. 5	Wilkes-Barre	Explosion of gas	14

C—Occupations of Persons Fatally Injured, by Counties, 1927

Occupations	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Susquehanna	Total	Percentage
Inside										
Mine foremen					1				1	.22
Assistant mine foremen				1	2	1	1		5	1.10
Fire bosses					1		1		2	.44
Miners	7	4	3	52	87	24	81		258	56.58
Miners' laborers			1	41	54	3	10	2	111	24.34
Machine runners and scrapers				4	2				6	1.31
Motormen	1			1	1				3	.66
Motormen's assistants	1			4	3				8	1.75
Drivers and runners				1	7	4			12	2.63
Trackmen				1	1		1		3	.66
Bratticemen				1			1		2	.44
Timbermen and rockmen				4	1	1			6	1.31
Pumpmen and pipemen					1				1	.22
Electricians				2	2				4	.88
Doorboys					2				2	.44
All other employes	1		1	8	16	3	3		32	7.02
Total	10	4	5	120	181	36	98	2	456	
Percentage	2.19	.88	1.10	26.32	39.69	7.89	21.49	.44		100.00
Outside										
Foremen				1			1		2	5.55
Carpenters					1				1	2.78
Machinists					1				1	2.78
Slatepickers (men)							1		1	2.78

All other employes	-------	-------	1	6	11	4	9	-------	31	86.11
Total	-------	-------	1	7	13	4	11	-------	36	-------
Percentage	-------	-------	2.78	19.44	36.11	11.11	30.56	-------	-------	100.00
Grand total	10	4	6	127	194	40	109	2	492	-------

C—Occupations of Persons Fatally Injured, by Counties, 1928

Occupations	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Total	Percentage
Inside											
Mine foremen	1									1	.24
Assistant mine foremen					3	1	2			6	1.45
Fire bosses					3		2			5	1.21
Miners	8	1		47	87	21	51	1	1	212	51.21
Miners' laborers	1		1	32	52	2	9	1		98	23.67
Machine runners and scrapers				3						3	.72
Motormen	1			1	3					5	1.21
Motormen's assistants				1	8	1				10	2.42
Drivers and runners				2	11	1	4			18	4.35
Trackmen					1					1	.24
Bratticemen					2					2	.48
Timbermen and rockmen	2			2	7	2	5			18	4.35
Pumpmen and pipemen				1		1				2	.48
Doorboys					4					4	.97
All other employes	2			2	19	1	5			29	7.00
Total	10	1	1	91	200	30	78	2	1	414	
Percentage	2.42	.24	.24	21.98	48.31	7.25	18.84	.48	.24		100.00
Outside											
Foremen				1		1				2	6.06
Carpenters								1		1	3.03
Engineers and firemen					2					2	6.06
Trackmen				1						1	3.03

Slatepickers (boys)				1						1	3.03
All other employes	2			9	6		9			26	78.79
Total	2			12	6	1	9	1		33	
Percentage	6.06			36.37	24.24	3.03	27.27	3.03			100.00
Grand total	12	1	1	103	208	31	87	3	1	447	

D—Nationality of Persons Fatally Injured, by Counties, 1927

Nationality	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Susquehanna	Total	Percentage
Inside										
American	6	4	5	36	57	20	24		152	33.33
Austrian	1			6	3	2	12		24	5.26
Croatian					1				1	.22
Danish					1				1	.22
English				7	4				11	2.41
French					1				1	.22
German				1	2			1	4	.88
Greek							2		2	.44
Hungarian					1		3		4	.88
Irish				1	1		1		3	.66
Italian				12	11		2		25	5.48
Lithuanian				11	18		27		56	12.28
Polish	1			22	55	7	17		102	22.36
Portuguese				1	2			1	4	.88
Russian				10	7	4	6		27	5.92
Scotch				1	1				2	.44
Serbian					1				1	.22
Slavonian	2			7	10	1	3		23	5.04
Spanish				1	1	1	1		4	.88
Swedish					1				1	.22
Tyrolean						1			1	.22
Ukrainian				1	2				3	.66
Welsh				3	1				4	.88
Total	10	4	5	120	181	36	98	2	456	
Percentage	2.19	.88	1.10	26.32	39.69	7.89	21.49	.44		100.00

Outside										
American				6	10	2	8		26	72.22
German							1		1	2.78
Italian					1		1		2	5.56
Lithuanian					1				1	2.78
Polish					1	1	1		3	8.33
Russian			1	1					2	5.55
Slavonian						1			1	2.78
Total			1	7	13	4	11		36	
Percentage			2.78	19.44	36.11	11.11	30.56			100.00
Grand total	10	4	6	127	194	40	109	2	492	

D—Nationality of Persons Fatally Injured, by Counties, 1928

Nationality	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Total	Percentage
Inside											
American	6	1	1	23	78	16	33			158	38.16
Austrian	3			7	7	1	3		1	22	5.32
Danish				1						1	.24
English				4	6					10	2.42
German				1	2					3	.73
Greek					1					1	.24
Irish				5	2					7	1.69
Italian				13	11	1	2			27	6.52
Lithuanian				4	18		20			42	10.14
Montenegrin					2					2	.48
Polish	1			16	46	9	7	2		81	19.57
Portuguese					1					1	.24
Russian				5	10	2	7			24	5.80
Scotch				1	2					3	.73
Slavonian				7	4		5			16	3.86
Spanish					2					2	.48
Syrian							1			1	.24
Swedish					3					3	.73
Tyrolean						1				1	.24
Ukrainian				2						2	.48
Welsh				2	5					7	1.69
Total	10	1	1	91	200	30	78	2	1	414	
Percentage	2.42	.24	.24	21.98	48.31	7.25	18.84	.48	.24		100.00

Outside											
American				6	6	1	5	1		19	57.58
Austrian	1						1			2	6.06
Hungarian				1						1	3.03
Irish							1			1	3.03
Italian				2			2			4	12.12
Polish				1						1	3.03
Russian				1						1	3.03
Slavonian				1	1					2	6.06
Spanish					1					1	3.03
Welsh	1									1	3.03
Total	2			12	8	1	9	1		33	
Percentage	6.06			36.37	24.24	3.03	27.27	3.03			100.00
Grand total	12	1	1	103	208	31	87	3	1	447	

E—Nationality of Employes and Number Killed, 1927-1928

Nationality	1927							1928						
	Employes			Fatalities				Employes			Fatalities			
	Inside	Outside	Total	Falls	Total inside	Total outside	Total inside and outside	Inside	Outside	Total	Falls	Total inside	Total outside	Total inside and outside
American	54,868	28,457	83,325	72	152	26	178	55,185	27,186	82,371	79	158	19	177
Austrian	4,922	1,431	6,353	9	24	-------	24	4,327	1,289	5,616	11	22	2	24
Belgian	18	11	29	-------	-------	-------	-------	19	1	20	-------	-------	-------	-------
Bohemian	57	11	68	-------	-------	-------	-------	40	6	46	-------	-------	-------	-------
Canadian	47	10	57	-------	-------	-------	-------	53	8	61	-------	-------	-------	-------
Croatian	65	2	67	-------	1	-------	1	130	-------	130	-------	-------	-------	-------
Danish	32	3	35	-------	1	-------	1	26	3	29	1	1	-------	1
English	2,102	562	2,664	6	11	-------	11	2,027	459	2,486	6	10	-------	10
Finnish	48	1	49	-------	-------	-------	-------	22	-------	22	-------	-------	-------	-------
French	46	4	50	1	1	-------	1	35	4	39	-------	-------	-------	-------
German	1,258	382	1,640	1	4	1	5	1,263	329	1,592	3	3	-------	3
Greek	679	145	824	1	2	-------	2	739	229	968	1	1	-------	1
Horwat	75	10	85	-------	-------	-------	-------	59	5	64	-------	-------	-------	-------
Hungarian	944	308	1,252	1	4	-------	4	1,024	333	1,357	-------	-------	1	1
Irish	2,101	613	2,714	2	3	-------	3	1,742	529	2,271	4	7	1	8
Italian	9,960	2,262	12,222	15	25	2	27	9,250	1,845	11,095	21	27	4	31
Lithuanian	10,099	717	10,816	25	56	1	57	9,298	373	9,671	26	42	-------	42
Mexican	161	1	162	-------	-------	-------	-------	24	2	26	-------	-------	-------	-------
Montenegrin	111	1	112	-------	-------	-------	-------	129	1	130	1	2	-------	2
Polish	21,649	1,659	23,308	55	102	3	105	20,705	1,373	22,078	52	81	1	82
Portuguese	178	3	181	2	4	-------	4	164	2	166	-------	1	-------	1
Russian	6,366	1,000	7,366	11	27	2	29	6,071	888	6,959	13	24	1	25
Scotch	782	178	960	1	2	-------	2	757	107	864	3	3	-------	3
Servian and Serbian	34	1	35	-------	1	-------	1	-------	-------	-------	-------	-------	-------	-------
Slavonian	7,242	1,374	8,616	15	23	1	24	6,864	1,137	8,001	12	16	2	18
Spanish	614	3	617	3	4	-------	4	507	-------	507	2	2	1	3
Swedish	173	44	217	-------	1	-------	1	160	41	201	2	3	-------	3
Swiss	9	23	32	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Syrian	22	44	66	-------	-------	-------	-------	156	44	200	1	1	-------	1
Tyrolean	523	40	563	2	2	-------	2	508	39	547	1	1	-------	1

| | | |

F—Operators Having Fatalities, 1927

	Causes of fatalities inside						Causes of fatalities outside					Fatalities inside and outside	Fatalities inside and outside per 1,000,000 man-days	Fatalities inside and outside per 1,000,000 tons produced	Production per fatality (net tons)
	Falls	Cars	Gas	Electricity	Miscellaneous	Total	Cars	Machinery	Electricity	Miscellaneous	Total				
Alden Coal Co.	1				1	2						2	9.44	5.51	181,623
Barry Coal Co.										1	1	1	102.72	88.04	11,358
Buck Mountain Coal Mining Co.	1				3	4						4	64.81	30.94	32,318
Buck Run Coal Co.	1		2			3						3	20.73	10.10	98,961
Colonial Colliery Co.	1	2			1	4						4	11.73	4.91	203,812
Conlon Coal Co., John	1					1						1	9.69	6.30	158,636
Coxe Brothers & Co., Inc	2				1	3	1				1	4	6.49	2.86	349,743
Dodson & Co., Charles M.	2					2	1				1	3	26.28	14.21	70,393
East Bear Ridge Colliery Co.					2	2						2	17.06	7.49	133,424
East Boston Coal Co.	1	2	1		1	5			1		1	6	40.65	22.76	43,934
Excelsior Coal Co.		1				1						1	11.86	4.05	246,960
Frackville Coal Co.					1	1						1	35.69	13.39	74,693
Glen Alden Coal Co.	47	8	7		17	79						79	16.40	7.82	127,928
Glendale Anthracite Collieries		1				1						1	8.17	5.64	177,152
Gorman & Campion	1				4	5						5	162.23	73.65	13,578
Grand Tunnel Coal Co.	2	1				3						3	33.21	18.57	53,859
Green Ridge Coal Co.	1					1						1	29.27	15.36	65,108
Haddock Mining Co.	2	1			1	4						4	10.16	4.72	212,015
Harleigh-Brookwood Coal Co.	2					2						2	6.61	3.03	330,098
Hazle Brook Coal Co.	1				4	5	1				1	6	14.20	4.44	225,327
Hillside Coal & Iron Co.	3				3	6						6	11.78	6.33	157,968
Hudson Coal Co.	23	4	5	1	9	42	1		1	2	4	46	13.20	5.83	171,477
Humbert Coal Co.	1			1		2						2	42.33	24.47	40,859
Jeddo Highland Coal Co.	4				2	6						6	9.77	4.98	200,715
Kingston Coal Co.	2				1	3	1	1			2	5	9.84	5.62	177,935
Lackawanna Coal Co., Ltd.	3	1			1	5						5	48.17	18.80	53,187
Lee Coal Co., George F.		1				1						1	12.95	8.65	115,672
Lehigh & Wilkes-Barre Coal Co.	15	2	7		9	33			1	1	2	35	11.21	5.61	178,387
Lehigh Coal & Navigation Co.	2	2	6	1	11	22				1	1	23	11.30	4.50	222,110
Lehigh Valley Coal Co.	19	2	4	1	5	31	3		1		4	35	12.48	5.22	191,417
Lehigh & Wyoming Valley Coal Co.	1					1						1	23.62	12.97	77,122
Lincoln Coal Co.					2	2						2	112.65	68.67	14,562

Locust Mountain Coal Co.										1	1	1	3.94	1.91	524,529
Lytle Coal Co.	1					1						1	6.30	2.94	340,505
Mid City Coal Co.		1				1						1	23.52	11.12	89,935
Mill Creek Coal Co.	1		1			2						2	8.52	6.02	166,048
Moffat Coal Co.	1					1						1	35.35	16.65	60,058
Mount Lookout Coal Co.	1					1				1	1	2	14.77	8.99	111,248
Murrin Coal Co.	1	1				2						2	83.33	39.43	25,362
Northumberland Mining Co.	2				2	4						4	20.13	9.92	100,773
Pennsylvania Coal Co.	14	2	3		4	23	1			1	2	25	8.31	4.35	229,980
Phila. & Reading Coal & Iron Co.	17	4	15	1	13	50		3		2	5	55	11.10	5.44	183,928
Pine Hill Coal Co.	5		1	1	1	8						8	16.51	10.48	95,463
Quinn Coal Co., T. F.					1	1				1	1	2	110.16	109.58	9,126
Richmondale Coal Co.		1				1						1	23.35	13.11	76,306
Saint Clair Coal Co.	1					1						1	6.05	2.53	395,532
Scranton Anthracite Coal Co.	1	1	1			3				1	1	4	71.10	30.17	33,140
Scranton Coal Co.	7	2			3	12				1	1	13	14.78	8.97	111,481
Shamokin Coal Co.	1	1				2						2	22.19	8.80	113,636
Shamokin Colliery Co.										1	1	1	45.05	3.89	257,345
Shipman Coal Co.			2		1	3						3	57.60	37.13	26,931
Shumaker, E. E.	1					1						1		5102.04	196
South Penn Collieries Co.	8	1			4	13				1	1	14	28.86	14.80	67,581
Spencer Coal Co.					1	1						1	17.66	11.34	88,184
Stackhouse Coal Co., E. S.							1				1	1	28.73	17.96	55,664
Suffolk Anthracite Collieries		2				2						2	17.09	6.01	166,267
Susquehanna Collieries Co.	17	6	7		4	34	2			1	3	37	14.41	7.41	135,024
Temple Coal Co.	3	1				4						4	7.89	4.31	232,079
West End Coal Co.		1				1						1	4.11	2.10	476,263
West Jermyn Coal Co.	1					1						1	116.10	153.52	6,514
Yatesville Coal Co.					1	1						1	35.07	17.16	58,265
Total	222	52	62	6	114	456	12	4	4	16	36	492			
Percentages for Region	48.68	11.40	13.60	1.32	25.00	100.00	33.33	11.11	11.11	44.45	100.00		12.95	6.20	161,315

F—Operators Having Fatalities, 1928

	Causes of fatalities inside						Causes of fatalities outside					Fatalities inside and outside	Fatalities inside and outside per 1,000,000 man-days	Fatalities inside and outside per 1,000,000 tons produced	Production per fatality (net tons)
	Falls	Cars	Gas	Electricity	Miscellaneous	Total	Cars	Machinery	Electricity	Miscellaneous	Total				
Buck Mountain Coal Mining Co.					1	1						1	21.00	7.16	139,574
Buck Run Coal Co.	1	1	1			3						3	17.93	9.58	104,368
Colonial Colliery Co.	1				1	2				1	1	3	8.61	3.65	273,947
Conlon Coal Co., John	1					1						1	9.07	4.93	202,753
Coxe Brothers & Co., Inc.	1				3	4	1				1	5	9.85	4.07	245,630
D. F. M. Co.		1				1						1	356.41	149.10	6,707
Dodson & Co., Charles M.	2				1	3						3	60.57	26.26	38,080
East Bear Ridge Colliery Co.		1				1						1	10.60	4.64	215,663
East Boston Coal Co.	4				1	5						5	27.54	16.83	59,404
Evans Colliery Co.	1					1						1	20.91	10.40	96,144
Glen Alden Coal Co.	28	7		1	12	48	1				1	49	10.19	5.18	192,970
Glendale Anthracite Collieries	3	1				4						4	42.20	22.51	44,420
Grand Tunnel Coal Co.	2					2						2	42.96	20.72	48,271
Haddock Mining Co.	2					2						2	5.10	2.16	462,916
Harleigh Brookwood Coal Co.					4	4						4	12.78	6.77	147,675
Hazle Brook Coal Co.		1			5	6	1				1	7	18.69	5.43	184,139
Hillside Coal & Iron Co.	4	1			3	8						8	20.61	10.63	94,094
Hudson Coal Co.	27	4	11		4	46	4	1			5	51	15.43	7.86	127,270
Jeddo-Highland Coal Co.	5	2	1		1	9						9	16.28	6.94	144,007
Jermyn & Co.	1	1				2						2	43.61	20.96	47,701
Kingston Coal Co.	3	4			1	8						8	15.70	9.77	102,316
Lackawanna Anthracite Mining Co.					2	2						2	49.02	28.43	35,179
Lackawanna Coal Co., Ltd.	1					1						1	12.28	4.07	245,754
Lackawanna Valley Fuel Co.								1			1	1	53.24	16.24	61,572
Langcliffe Collieries, Inc.	1					1						1	16.42	4.26	234,960
Laurel Coal Mining Co.					1	1						1	226.04	102.26	9,779
Lee Coal Co., George F.	2					2	1				1	3	34.98	21.38	46,770
Lehigh Coal & Navigation Co.	6	1	1	1	3	12	2				2	14	7.68	3.38	295,517
Lehigh Valley Coal Co.	21	4	6		4	35	2	1		1	4	39	14.93	6.24	160,321
Lehigh & Wilkes-Barre Coal Co.	23	7	6		13	49				1	1	50	17.64	8.47	118,000
Locust Mountain Coal Co.	2					2						2	12.38	4.03	248,210
Lytle Coal Co.			4			4						4	26.94	12.23	81,794

Meadowside Coal Co.	2				1	3						3	93.01	65.79	15,199
Miners Mills Coal Mining Co.	1					1						1	21.47	10.50	95,240
Mine Run Coal Co.							1				1	1	88.61	58.89	16,980
Mt. Lookout Coal Co.	2					2						2	25.84	13.26	75,407
Northern Anthracite Coal Co.	2					2		1			1	3	231.16	126.95	7,877
Northumberland Coal Co.	1	1			1	3						3	13.10	6.86	145,756
Pardee Brothers & Co., Inc.	2					2						2	6.92	3.98	251,115
Pennsylvania Coal Co.	18	3		3	8	32				1	1	33	12.20	6.51	153,595
Phila. & Reading Coal & Iron Co.	40	3	2		7	52		1		2	3	55	11.60	5.34	187,110
Pine Hill Coal Co.	1	1			1	3	1				1	4	9.91	5.15	194,201
Pittston Coal Mining Co.	1					1						1	24.84	12.79	78,179
Plymouth Red Ash Coal Co.		1				1						1	62.20	44.75	22,345
Price-Pancoast Coal Co.	4					4						4	34.99	15.71	63,658
Public Service Coal Co.	1					1	1				1	2	56.34	50.36	19,856
Reppler Coal Co.		1				1						1	9.89	3.90	256,141
Saint Clair Coal Co.	1					1						1	6.81	3.01	331,996
Scranton Coal Co.	3			1		4	1			1	2	6	6.62	4.07	104,368
South Penn Collieries Co.	3				2	5	1				1	6	11.92	5.70	273,947
Spencer Coal Co.	1					1						1	20.19	11.70	85,503
Sunrise Coal Co.										1	1	1	565.61	88.48	11,302
Susquehanna Collieries Co.	14	2	2		3	21		1			1	22	8.98	4.90	204,151
Temple Coal Co.	3					3	1	1			2	5	11.61	6.09	164,133
West End Coal Co.	1					1						1	7.64	3.78	264,204
Total	243	48	34	6	83	414	18	7		8	33	447			
Percentages for Region	58.70	11.59	8.21	1.45	20.05	100.00	54.55	21.21		24.24	100.00		12.68	6.00	166,784

G—Non-fatal Accidents,* Classified by Cause, by Counties, 1927

	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Wayne	Total	Percentage
Inside												
Falls of coal, slate and roof	10	2	8	141	203	51	160	1	1	2	579	30.91
Mine cars	6	1	6	78	146	35	76		1		349	18.63
Explosions of gas	3	2		4	32	5	40				86	4.59
Explosions of powder and dynamite				2	2	2	7				13	.70
Blasts, premature and otherwise	1			24	27	8	12		1		73	3.90
Crushed at batteries			1			2					3	.16
Animals				1	12	3	7			1	24	1.28
Machinery				3	3		5				11	.59
Electricity				2	3						5	.27
Miscellaneous	21	12	10	118	239	76	249	2	2	1	730	38.97
Total	41	17	25	373	667	182	556	3	5	4	1,873	100.00
Outside												
Cars	5	1	1	13	17	6	22				65	23.72
Machinery		1		3	4		8				16	5.84
Electricity		1			2						3	1.10
Miscellaneous	11	5	2	25	43	25	78	1			190	69.34
Total	16	8	3	41	66	31	108	1			274	100.00
Grand total	57	25	28	414	733	213	664	4	5	4	2,147	

* Disability 60 days or more.

G—Non-fatal Accidents,* Classified by Cause, by Counties, 1928

	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Total	Percentage
Inside											
Falls of coal, slate and roof	15	7	15	170	272	46	198	5	----	728	36.34
Mine cars	8	6	5	92	163	30	65	1	----	370	18.47
Explosions of gas	2	----	----	6	20	4	27	----	----	59	2.95
Explosions of powder and dynamite	----	----	----	7	4	----	5	----	----	16	.80
Blasts, premature and otherwise	----	----	1	9	20	4	13	----	----	47	2.35
Falling into shafts	----	----	----	1	1	----	----	----	----	2	.10
Falling into slopes, etc.	----	----	----	----	----	----	1	----	----	1	.05
Crushed at batteries	----	1	----	----	----	1	5	----	----	7	.35
Animals	1	----	----	3	2	4	7	----	----	17	.85
Machinery	----	----	----	4	6	1	----	----	----	11	.55
Electricity	----	----	----	----	1	----	1	----	----	2	.10
Miscellaneous	21	3	12	147	263	64	230	2	1	743	37.09
Total	47	17	33	439	752	154	552	8	1	2,003	100.00
Outside											
Cars	1	2	1	14	17	6	25	----	----	66	23.66
Machinery	1	----	----	2	8	----	13	----	----	24	8.60
Electricity	----	----	----	2	----	----	----	----	----	2	.72
Miscellaneous	10	1	4	31	63	16	61	1	----	187	67.02
Total	12	3	5	49	88	22	99	1	----	279	100.00
Grand total	59	20	38	488	840	176	651	9	1	2,282	----

* Disability 60 days or more

H—Fatal Accidents, Classified by Cause, 1919-1928

Cause	1919		1920		1921		1922		1923	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Inside										
Falls of coal	55	9.82	43	10.67	51	10.16	24	9.23	54	11.87
Falls of slate and roof	173	30.89	147	36.47	176	35.06	97	37.31	164	36.04
Cars	74	13.21	57	14.14	69	13.74	49	18.85	71	15.60
Explosions of gas	43	7.68	35	8.68	62	12.35	18	6.92	42	9.23
Suffocation by gas	6	1.07	9	2.23	8	1.59	2	.77	3	.66
Blasts	56	10.00	48	11.91	63	12.55	36	13.85	47	10.33
Electricity	4	.72	5	1.24	4	.80	3	1.15	5	1.10
Machinery	1	.18	1	.27	2	.40	----------	----------	2	.44
Miscellaneous	148	26.43	58	14.39	67	13.35	31	11.92	67	14.73
Total inside	560	100.00	403	100.00	502	100.00	260	100.00	455	100.00
Outside										
Mine cars	26	34.21	27	31.03	14	31.82	13	32.50	13	21.67
Railroad cars	11	14.48	6	6.90	3	6.82	4	10.00	8	13.33
Machinery	16	21.05	21	24.14	13	29.54	6	15.00	13	21.67
Electricity	2	2.63	3	3.45	4	9.09	1	2.50	2	3.33
Miscellaneous	21	27.63	30	34.48	10	22.73	16	40.00	24	40.00
Total outside	76	100.00	87	100.00	44	100.00	40	100.00	60	100.00
Grand total	636	----------	490	----------	546	----------	300	----------	515	----------

II—Fatal Accidents, Classified by Cause, 1919-1928—Concluded

Cause	1924		1925		1926		1927		1928	
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent
Inside										
Falls of coal	59	13.35	37	10.57	45	10.66	49	10.75	60	14.49
Falls of slate and roof	147	33.26	127	36.29	165	39.10	173	37.94	183	44.20
Cars	56	12.67	51	14.57	47	11.14	52	11.40	48	11.60
Explosions of gas	50	11.31	43	12.29	51	12.09	53	11.62	29	7.00
Suffocation by gas	10	2.26	1	.29	10	2.37	9	1.97	5	1.21
Blasts	53	11.99	53	15.14	48	11.37	53	11.62	26	6.28
Electricity	8	1.81	4	1.14	2	.47	6	1.32	6	1.45
Machinery	3	.68	----------	----------	1	.24	1	.22	2	.48
Miscellaneous	56	12.67	34	9.71	53	12.56	60	13.16	55	13.29
Total inside	442	100.00	350	100.00	422	100.00	456	100.00	414	100.00
Outside										
Mine cars	27	50.00	9	17.65	11	33.34	7	19.44	14	42.43
Railroad cars	7	12.96	4	7.84	5	15.15	5	13.89	4	12.12
Machinery	7	12.96	10	19.61	3	9.09	4	11.11	7	21.21
Electricity	2	3.71	6	11.76	3	9.09	4	11.11	----------	----------
Miscellaneous	11	20.37	22	43.14	11	33.33	16	44.45	8	24.24
Total outside	54	100.00	51	100.00	33	100.00	36	100.00	33	100.00
Grand total	496	----------	401	----------	455	----------	492	----------	447	----------

I—Total Production, Production from Washeries, Employes, Fatalities, 1870-1928

	Total production (net tons)	Washery production (net tons)	Employes	Fatalities	Production per fatality	Fatalities per 1,000,000 tons produced
1870	14,172,004		35,600	211	67,166	14.89
1871	15,532,252		37,488	210	73,963	13.52
1872	15,567,973		44,745	223	69,811	14.32
1873	21,001,521		48,199	264	79,551	12.57
1874	19,930,240		53,402	231	86,278	11.59
1875	23,402,646		69,966	238	98,330	10.17
1876	23,440,666		70,474	228	102,810	9.73
1877	24,727,213		66,842	194	127,460	7.85
1878	20,900,966		63,964	187	111,770	8.95
1879	31,036,600		68,847	262	118,460	8.44
1880	27,974,532		73,273	202	138,488	7.22
1881	34,202,558		76,031	273	125,284	7.98
1882	35,057,430		82,260	295	118,839	8.41
1883	37,747,369		91,421	323	116,865	8.56
1884	36,468,738		101,073	332	109,846	9.10
1885	38,232,155		100,320	332	115,157	8.68
1886	38,950,932		103,044	279	139,609	7.16
1887	42,156,300		106,517	316	133,406	7.50
1888	46,635,037		122,218	364	128,118	7.81
1889	43,650,768		119,646	397	109,952	9.09
1890	44,986,286		119,919	378	119,011	8.40
1891	49,761,322		123,308	428	116,125	8.61
1892	51,226,978		130,300	418	122,553	8.16
1893	52,841,110	[1]	138,069	456	115,880	8.63
1894	50,966,920	386,960	139,939	446	114,276	8.75
1895	56,948,756	686,534	143,705	421	135,270	7.39
1896	53,843,250	527,809	150,088	502	107,257	9.32
1897	52,581,036	732,743	149,557	423	124,305	8.04
1898	52,812,675	697,759	142,420	411	128,498	7.78
1899	60,518,331	1,055,425	140,604	461	131,276	7.62
1900	57,363,396	1,818,170	143,824	411	139,570	7.16
1901	67,094,665	2,009,864	147,651	513	130,789	7.65
1902	41,340,935	2,965,792	148,139	300	137,803	7.26
1903	75,232,585	4,119,258	151,827	518	145,237	6.89
1904	73,594,369	3,440,420	161,336	595	123,688	8.08
1905	78,647,020	3,897,688	168,254	644	122,123	8.19
1906	72,139,510	4,880,402	166,175	557	129,514	7.72
1907	86,056,412	5,630,169	168,774	708	121,549	8.23
1908	83,543,243	4,635,923	174,503	678	123,220	8.12
1909	80,223,833	5,206,562	171,195	567	141,488	7.07
1910	83,683,994	5,412,167	168,175	601	139,241	7.18
1911	90,917,176	4,555,457	173,338	699	130,067	7.69
1912	84,426,869	4,317,161	175,098	601	140,477	7.12
1913	91,626,964	2,934,157	175,310	624	146,838	6.81
1914	91,189,641	2,702,537	180,899	600	151,983	6.58
1915	89,377,706	3,418,427	177,339	588	152,003	6.58
1916	87,680,198	4,432,606	159,169	565	155,186	6.44
1917	100,445,299	6,408,277	156,148	581	172,883	5.78
1918	99,445,794	7,246,454	148,226	556	178,859	5.59
1919	87,838,024	3,616,675	153,780	636	138,110	7.24
1920	89,636,036	5,435,697	149,117	490	182,931	5.47
1921	90,358,642	1,842,096	161,926	546	165,492	6.04
1922	53,910,201	2,525,402	159,880	300	179,701	5.56
1923	92,653,641	4,212,001	158,764	515	179,910	5.56
1924	87,277,449	1,141,796	162,503	496	175,962	5.68
1925	61,334,145	894,187	163,825	401	152,953	6.54
1926	83,874,500	1,365,175	168,734	455	184,340	5.42
1927	79,367,154	1,851,440	167,648	492	161,315	6.20
1928	74,552,312	1,614,863	160,721	447	166,784	6.00

[1] No accurate record previous to 1894.

II PRODUCTION

A—Tonnage (Net) by Counties, 1927-1928

	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Wayne	Total	Per Cent
1927												
Shipped to market	2,521,819	830,955	934,009	15,851,716	27,645,779	5,901,517	15,927,228	116,563	236,656	54,291	70,020,533	88.22
Consumed at collieries	103,838	108,674	132,700	988,388	2,592,194	661,946	1,916,116	29,814	20,498	4,907	6,559,075	8.27
Sold locally	48,244	22,600	25,828	554,125	1,443,314	216,626	461,355	7,324	6,563	1,567	2,787,546	3.51
Total production	2,673,901	962,229	1,092,537	17,394,229	31,681,287	6,780,089	18,304,699	153,701	263,717	60,765	79,367,154	
Percentage	3.37	1.21	1.38	21.92	39.92	8.54	23.06	.19	.33	.08		100.00
Average days worked	227	207	240	223	234	220	222	107	231	223	227	
1928												
Shipped to market	1,867,368	923,444	761,342	15,158,789	25,916,958	5,481,539	15,498,794	99,462	180,482	34,756	65,922,934	88.43
Consumed at collieries	90,164	118,247	119,827	954,257	2,157,323	586,276	1,700,385	27,048	15,439	2,955	5,771,921	7.74
Sold locally	42,511	21,149	24,547	651,110	1,427,105	203,189	472,301	7,714	6,535	1,296	2,857,457	3.83
Total production	2,000,043	1,062,840	905,716	16,764,156	29,501,386	6,271,004	17,671,480	134,224	202,456	39,007	74,552,312	
Percentage	2.68	1.43	1.22	22.49	39.57	8.41	23.70	.18	.27	.05		100.00
Average days worked	192	224	206	227	223	207	216	110	167	150	219	

A—Tonnage (Net) by Inspection Districts, 1927

Inspection Districts	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60-days or more	Pounds of explosives used		
								Black powder	Dynamite	Permissible explosives
1	1,451,875	78,203	36,934	1,567,012	3,391	15	42	649,375	619,536	748,826
2	3,284,550	207,017	60,020	3,551,587	7,635	21	69	1,191,234	459,296	916,909
3	2,895,229	204,737	136,726	3,236,692	6,623	28	77	1,820,741	880,709	1,020,062
4	2,548,610	155,344	111,667	2,815,621	7,317	20	58	1,505,650	400,999	417,738
5	1,598,576	66,263	60,446	1,725,285	4,363	16	58	604,193	627,725	124,537
6	4,260,426	302,229	156,462	4,719,117	9,631	29	117	3,099,827	1,044,573	741,705
7	1,962,837	139,338	62,728	2,164,903	4,959	13	40	602,350	584,650	725,152
8	2,480,265	224,481	48,600	2,753,346	6,957	15	60	1,405,300	277,188	851,062
9	1,755,489	370,096	92,193	2,217,778	5,011	12	46	231,700	1,254,862	87,274
10	2,405,006	287,288	153,255	2,845,549	7,322	29	104	794,832	587,582	1,036,244
11	2,530,518	282,139	368,209	3,180,866	6,831	15	71	276,025	413,256	1,454,564
12	3,195,722	241,615	177,165	3,614,502	7,592	31	67	1,150,226	130,234	878,267
13	4,934,276	267,546	88,405	5,290,227	9,813	28	118	625	360,710	2,932,175
14	4,355,323	327,979	80,614	4,763,916	8,921	32	123	159,800	522,433	1,954,559
15	3,434,679	382,505	171,068	3,988,252	7,714	15	87	----------	2,426,227	226,860
16	2,487,625	237,702	241,748	2,967,075	6,371	9	66	40,625	1,245,404	378,493
17	3,475,804	119,114	51,714	3,646,632	6,049	14	93	6,000	2,190,185	358,602
18	3,534,359	341,102	135,201	4,010,662	7,525	29	113	50	1,210,125	811,118
19	2,146,226	310,663	80,118	2,537,007	5,734	15	128	14,130	840,980	744,089
20	1,928,587	370,742	49,969	2,349,298	5,775	17	113	----------	838,986	162,040
21	2,648,654	332,806	79,790	3,061,250	6,398	29	134	24,300	1,227,117	190,154
22	2,619,559	333,075	76,617	3,029,251	5,849	11	89	3,050	1,502,232	139,050
23	3,068,539	317,786	59,838	3,446,163	6,923	21	102	425	957,773	1,818,375
24	2,518,543	264,430	144,287	2,927,260	6,845	16	101	600	990,614	929,522
25	2,499,256	394,875	63,772	2,957,903	6,099	12	71	2,200	1,060,122	475,611
Total	70,020,533	6,559,075	2,787,546	79,367,154	167,648	492	2,147	13,583,258	22,653,518	19,622,988

A—Tonnage (Net) by Inspection Districts, 1928

Inspection Districts	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60-days or more	Pounds of explosives used		
								Black powder	Dynamite	Permissible explosives
1	1,049,916	44,582	35,776	1,130,274	3,141	8	27	492,825	225,045	633,362
2	3,097,756	214,750	75,147	3,387,653	7,201	20	92	1,224,470	539,043	709,083
3	2,860,115	192,206	132,777	3,185,098	6,546	17	87	1,878,834	735,603	959,117
4	2,419,904	161,071	154,841	2,735,816	7,171	20	86	1,602,850	381,588	585,225
5	1,417,163	60,641	83,598	1,561,402	4,122	8	57	628,025	546,620	67,833
6	4,428,369	298,320	174,097	4,900,786	9,717	30	138	3,110,350	932,400	1,166,432
7	1,623,006	94,364	60,847	1,778,217	4,728	21	41	571,680	482,426	384,843
8	1,879,111	206,287	41,916	2,127,314	6,298	17	49	1,038,825	202,250	616,275
9	1,861,402	257,270	93,926	2,212,598	4,974	14	64	271,150	1,161,350	116,775
10	2,320,270	249,100	115,616	2,684,986	6,873	25	128	991,175	567,377	949,574
11	2,318,543	270,574	387,593	2,976,710	6,732	26	98	209,733	507,695	1,293,182
12	2,932,193	240,406	222,005	3,394,604	7,490	27	101	943,750	119,537	998,137
13	4,687,758	259,602	107,555	5,054,915	9,714	38	133	50	307,775	2,995,850
14	4,464,691	177,478	80,852	4,723,021	8,850	21	137	75,100	362,699	2,043,092
15	3,417,278	357,077	191,935	3,966,290	7,236	17	84	----------	2,163,975	152,325
16	2,238,194	189,735	168,084	2,596,013	5,922	13	54	18,125	1,134,999	268,262
17	2,764,670	121,385	45,779	2,932,334	6,102	13	76	5,400	2,107,197	328,948
18	3,016,756	275,260	144,963	3,436,979	7,458	10	135	----------	859,276	645,002
19	2,382,196	241,460	80,569	2,704,225	5,674	17	116	875	730,404	787,185
20	1,894,529	334,420	49,448	2,278,397	4,883	20	115	----------	545,322	374,540
21	2,795,101	313,947	79,408	3,188,456	6,087	17	154	34,100	842,401	535,660
22	2,713,937	309,356	77,755	3,101,048	5,406	10	66	----------	1,404,778	138,165
23	3,025,195	296,392	60,200	3,381,787	6,764	17	67	3,400	905,260	1,268,024
24	2,154,612	222,319	131,095	2,508,026	6,149	12	99	----------	693,150	793,109
25	2,160,269	383,419	61,675	2,605,363	5,483	9	78	----------	862,637	415,305
Total	65,922,934	5,771,921	2,857,457	74,552,312	160,721	447	2,282	13,100,717	19,320,807	19,225,305

B—Operators, Production, Employes, Days Worked, 1927

Operators	Production (Gross tons)	Employes			Average man-days worked
		Inside	Outside	Total	
Alden Coal Co.	324,326	644	138	782	271
Archbald Coal Co.	121,747	176	60	236	249
Barry Coal Co.	10,141	----------	33	33	295
Barron Coal Co.	5,382	25	3	28	68
Black Heath Coal Co.	12,397	12	15	27	286
Buck Mountain Coal Mining Co.	115,422	170	52	222	278
Buck Run Coal Co.	265,075	448	115	563	257
Butcher Creek Coal Co.	5,077	15	12	27	88
Central Coal Co.	32,811	38	32	70	198
Chestnut Hill Coal Co.	6,113	9	10	19	165
Clifford Coal Co.	21,586	125	32	157	250
Clift Coal Co.	27,021	96	27	123	234
Coleraine Colliery Co.	22,517	34	36	70	163
Colonial Colliery Co.	727,899	968	208	1,176	290
Conlon Coal Co., John	141,639	425	73	498	207
Connell Anthracite Mining Co.	111,429	360	115	475	117
Coxe Brothers & Co., Inc.	1,249,083	2,228	784	3,012	265
Cranston, R. M.	11,636	21	4	25	249
Dodson & Co., Charles M.	188,553	230	172	402	284
Dunmore Anthracite Coal Co.	8,062	54	24	78	114
East Alden Mining Co.	16,006	37	12	49	225
East Bear Ridge Colliery Co.	238,256	328	116	444	264
East Boston Coal Co.	235,359	376	121	497	297
Evans Colliery Co.	70,724	146	61	207	202
Excelsior Coal Co.	220,500	117	183	300	281
Fireside Coal Co.	1,025	34	9	43	17
Frackville Coal Co.	66,690	70	29	99	283
Franklin Coal Co., M. A.	5,418	----------	19	19	99
Gibbons Coal Co., John	44,700	19	63	82	204
Glen Alden Coal Co.	9,023,512	16,359	3,266	19,625	245
Glendale Anthracite Collieries	158,171	381	64	445	275
Gorman & Campion	60,618	95	39	134	230
Grand Tunnel Coal Co.	144,266	256	61	317	285
Green Ridge Coal Co.	58,132	94	18	112	305
Haddock Mining Co.	757,195	1,091	278	1,369	288
Harleigh-Brookwood Coal Co.	589,460	770	387	1,157	261
Harris-Denly Coal Co.	30,819	34	13	47	285
Harwood Coal Co.	41,539	138	113	251	206
Hazle Brook Coal Co.	1,207,106	933	690	1,623	260
Hickory Run Coal Co.	29,785	----------	48	48	254
Hillside Coal & Iron Co.	846,258	1,769	431	2,200	231
Hudson Coal Co.	7,042,805	14,280	3,666	17,946	194
Humbert Coal Co.	72,962	160	50	210	225
Jeddo-Highland Coal Co.	1,076,259	1,775	616	2,391	257
Jermyn & Co.	20,261	545	149	694	18
John-Ames Coal Co.	38,665	----------	30	30	262
Kingston Coal Co.	794,354	1,341	534	1,875	271
Lackawanna Coal Co., Ltd.	237,443	399	100	499	208
Lackawanna Valley Fuel Co.	33,575	27	61	88	236
Laurel Coal Mining Co.	2,970	54	20	74	13
Lee Coal Co., George F.	103,279	256	41	297	260
Lehigh & Wilkes-Barre Coal Co.	5,574,608	9,807	2,512	12,319	253
Lehigh Coal & Navigation Co.	4,561,189	6,306	2,540	8,846	230
Lehigh Valley Coal Co.	5,981,768	10,595	3,188	13,783	204
Lehigh & Wyoming Valley Coal Co.	68,859	124	23	147	288
Lincoln Coal Co.	26,003	52	14	66	269
Locust Mountain Coal Co.	468,329	297	567	864	294
Lynott & Brown	3,915	14	4	18	225
Lytle Coal Co.	304,022	499	226	725	219
Meadowside Coal Co.	26,280	106	19	125	223
Mid City Coal Co.	80,299	155	34	189	225
Mill Creek Coal Co.	296,514	577	319	896	262
Miners Mills Coal Mining Co.	69,897	110	19	129	290
Moffat Coal Co.	53,623	113	23	136	208
Mount Lookout Coal Co.	198,656	375	100	475	285
Murrin Coal Co.	45,289	79	17	96	250
Nanticoke Valley Coal Co.	43,586	----------	56	56	245
Northern Anthracite Coal Co.	25,804	121	38	159	79
Northern Anthracite Collieries Corp.	8,800	37	14	51	193
Northumberland Mining Co.	359,904	569	113	682	291
Pardee Brothers & Co., Inc.	466,508	743	276	1,019	288
Pennsylvania Coal Co.	5,133,474	10,200	2,459	12,659	238
Perry Coal Co.	5,500	----------	4	4	90
Phila. & Reading Coal & Iron Co.	9,032,161	17,329	7,344	24,673	201
Pine Hill Coal Co.	681,876	1,254	479	1,733	280
Pittston Coal Mining Co.	95,359	147	47	194	289
Price-Pancoast Coal Co.	117,918	397	132	529	99

B—Operators, Production, Employes, Days Worked, 1927—Concluded

Operators	Production (Gross tons)	Employes			Average man—days worked
		Inside	Outside	Total	
Public Service Coal Co.	51,315	147	30	177	199
Quinn Coal Co., T. F.	16,296	138	40	178	102
Racket Brook Coal Co.	198,727	306	86	392	261
Ransom Coal Co.	6,906	30	3	33	122
Raub Coal Co.	117,569	308	72	380	244
Repplier Coal Co.	263,140	378	135	513	212
Richmondale Coal Co.	68,130	140	26	166	258
Roaring Brook Coal Co.	1,971	39	3	42	30
Saint Clair Coal Co.	353,154	333	216	549	301
Sandy Run Coal Co.	110,434	155	85	240	266
Scotch Run Coal Co.	10,115	73	32	105	79
Scranton Anthracite Coal Co.	118,358	200	56	256	220
Scranton Coal Co.	1,293,977	3,612	773	4,385	201
Shamokin Coal Co.	203,028	227	86	313	288
Shamokin Colliery Co.	229,772		75	75	296
Sherman Coal Corp.	141,686	115	54	169	294
Shipman Coal Co.	72,136	375	90	465	112
Shumaker, E. E.	175				
South Penn Collieries Co.	844,762	1,403	346	1,749	277
Spencer Coal Co.	78,736	196	26	222	255
Stackhouse Coal Co., E. S.	49,700	112	40	152	229
Suffolk Anthracite Collieries	296,905	292	101	393	298
Sullivan & Flynn	8,560	20	6	26	295
Sunrise Coal Co.	1,960		12	12	223
Suscon Coal Co.	21,805	48	16	64	214
Susquehanna Collieries Co.	4,460,622	8,408	2,751	11,159	230
Temple Coal Co.	828,854	1,616	442	2,058	246
Traders Coal Co.	62,453	279	31	310	188
Troy Coal Co.	15,952	35	10	45	283
West End Coal Co.	425,235	768	209	977	249
West Jermyn Coal Co.	5,816	24	9	33	261
Wolf Collieries Co.	48,090	112	24	136	185
Yatesville Coal Co.	52,022	95	11	106	269
Total	70,863,530	127,952	39,696	167,648	227

B—Operators, Employes, Days Worked, 1928

Operators	Production (Gross tons)	Employes			Average man-days worked
		Inside	Outside	Total	
Alden Coal Co.	412,287	682	130	812	273
Barry Coal Co.	4,700	----------	37	37	299
Beardslee & Lewis Coal Co.	4,259	34	7	41	112
Black Heath Coal Co.	16,733	12	15	27	269
Buck Mountain Coal Mining Co.	124,620	137	55	192	248
Buck Run Coal Co.	279,556	484	157	641	261
Chestnut Hill Coal Co.	15,003	37	15	52	224
Childs Coal Co.	3,150	9	2	11	198
Clifford Coal Co.	43,085	----------	51	51	228
Coleraine Collieries Co.	14,680	41	22	63	143
Colonial Colliery Co.	733,786	975	202	1,177	296
Conlon Coal Co., John	181,029	379	63	442	249
Connell Anthracite Mining Co.	98,744	361	104	465	106
Coxe Brothers & Co., Inc.	1,096,561	2,154	770	2,924	174
Cranston, R. M.	12,762	21	4	25	264
D. F. M. Co.	5,988	17	3	20	195
Dodson & Co., Charles M.	102,000	251	155	406	122
Dunmore Anthracite Coal Co.	3,334	30	8	38	190
East Alden Mining Co.	21,396	39	9	48	202
East Bear Ridge Colliery Co.	192,556	336	122	458	206
East Boston Coal Co.	265,196	494	130	624	291
Evans Colliery Co.	85,843	147	60	207	231
Excelsior Coal Co.	220,200	100	167	267	248
Fox Hill Mining Co.	30,430	40	3	43	287
Frackville Coal Co.	67,714	80	39	119	251
Gibbons Coal Co.	51,621	21	66	87	192
Glen Alden Coal Co.	8,442,459	16,360	3,220	19,580	245
Glendale Anthracite Collieries	158,642	328	31	359	264
Gorman & Campion	60,288	75	38	113	225
Grand Tunnel Coal Co.	86,197	203	50	253	184
Green Ridge Coal Co.	62,955	105	21	126	295
Grove Hill Coal Co.	28,631	48	5	53	276
Haddock Mining Co.	826,636	1,199	269	1,468	267
Hanover Coal Co.	6,020	----------	23	23	130
Harleigh-Brookwood Coal Co.	590,698	789	336	1,125	278
Harris-Denly Coal Co.	20,842	29	9	38	289
Hazle Brook Coal Co.	1,288,974	921	661	1,582	237
Hillside Coal & Iron Co.	672,099	1,667	382	2,049	189
Hudson Coal Co.	6,490,745	13,553	3,426	16,979	195
Humbert Coal Co.	99,350	175	50	225	255
Jeddo-Highland Coal Co.	1,157,198	1,586	567	2,153	257
Jermyn & Co.	85,179	501	136	637	72
John-Ames Coal Co.	32,543	----------	33	33	225
Kingston Coal Co.	730,828	1,307	494	1,801	283
Lackawanna Anthracite Mining Co.	62,820	161	27	188	217
Lackawanna Coal Co., Ltd.	219,423	389	79	468	174
Lackawanna Valley Fuel Co.	54,975	20	55	75	250
Langcliffe Collieries, Inc.	209,786	389	144	533	114
Laurel Coal Mining Co.	8,731	57	22	79	56
Lee Coal Co., George F.	125,278	269	44	313	274
Lehigh Coal Co.	19,771	----------	67	67	291
Lehigh Coal & Navigation Co.	3,693,966	6,359	2,386	8,745	208
Lehigh & Wilkes-Barre Coal Co.	5,267,854	9,901	2,285	12,186	233
Lehigh Valley Coal Co.	5,582,602	10,703	3,202	13,905	188
Lehigh-Wyoming Valley Coal Co.	77,012	142	42	184	287
Lincoln Coal Co.	25,381	55	15	70	261
Locust Mountain Coal Co.	443,231	275	366	641	252
Lynott & Brown	4,869	----------	15	15	272
Lytle Coal Co.	292,121	525	225	750	198
Meadowside Coal Co.	40,712	105	21	126	256
Mid-City Coal Co.	63,717	146	32	178	208
Mill Creek Coal Co.	383,374	515	193	708	262
Miners Mills Coal Mining Co.	85,036	141	18	159	293
Mine Run Coal Co.	15,161	30	7	37	305
Moffat Coal Co.	61,796	130	23	153	211
Mt. Lookout Coal Co.	134,655	369	100	469	165
Murrin Coal Co.	31,704	75	12	87	231
Namura Coal Co.	5,313	12	2	14	263
Nanticoke Valley Coal Co.	55,006	----------	53	53	294
Northern Anthracite Coal Co.	21,099	81	22	103	126
Northumberland Mining Co.	390,417	658	113	771	297
Pardee Brothers & Co., Inc.	448,420	887	327	1,214	238
Pennsylvania Coal Co.	4,525,578	9,532	2,105	11,637	232
Phila. & Reading Coal & Iron Co.	9,188,435	15,611	6,278	21,889	217
Pine Hill Coal Co.	693,575	1,285	421	1,706	237
Pittston Coal Mining Co.	69,803	121	44	165	244
Plymouth Red Ash Coal Co.	19,951	49	20	69	233

B—Operators, Employes, Days Worked, 1928—Concluded

Operators	Production (Gross tons)	Employes			Average man-days worked
		Inside	Outside	Total	
Price-Pancoast Coal Co.	227,349	413	134	547	209
Public Service Coal Co.	55,456	200	32	232	155
Quinn Coal Co., T. F.	27,864	123	58	181	127
Racket Brook Coal Co.	104,203	269	80	349	152
Raub Coal Co.	111,162	302	66	368	214
Repplier Coal Co.	228,697	386	93	479	211
Roaring Brook Coal Co.	27,209	53	5	58	70
Saint Clair Coal Co.	246,425	339	211	550	207
Sandy Run Coal Co.	117,656	130	77	207	254
Scranton Anthracite Coal Co.	62,244	124	51	175	270
Scranton Coal Co.	1,215,177	3,693	720	4,413	265
Shamokin Coal Co.	47,941	242	88	330	80
Shamokin Colliery Co.	229,021	----------	78	78	284
Sherman Coal Corp.	149,625	133	55	188	291
South Penn Collieries Co.	989,528	1,462	231	1,704	281
Spencer Coal Co.	76,342	184	25	209	267
Stackhouse Coal Co., E. S.	31,918	80	35	115	160
Stevens Chapin Coal Co.	85,940	----------	44	44	168
Sullivan & Flynn Coal Co.	23,201	40	7	47	209
Sunrise Coal Co.	10,091	----------	8	8	221
Suscon Coal Co.	13,325	14	8	22	150
Susquehanna Collieries Co.	4,010,113	8,777	2,748	11,525	212
Temple Coal Co.	732,738	1,558	442	2,000	215
Terry Coal Co.	13,640	----------	4	4	255
Throop Coal Co.	15,237	16	4	20	288
Troy Coal Co.	25,679	46	12	58	297
Vandling Coal Co.	2,705	12	3	15	61
West End Coal Co.	235,396	659	197	856	174
West Jermyn Coal Co.	11,341	19	3	22	285
Wolf Collieries Co., Inc.	25,203	63	8	71	182
Yatesville Coal Co.	81,948	105	20	125	280
Total	66,564,564	124,162	36,559	160,721	219

Production of Coal

Operators	Gross Tons 1927	1928
CARBON COUNTY		
Lehigh Coal & Navigation Co.	1,995,071	1,425,550
Coxe Brothers & Co.	206,143	192,680
Lehigh Valley Coal Co.	92,957	67,000
Evans Colliery Co.	70,724	85,843
Coleraine Colliery Co.	22,517	14,680
Total	2,387,412	1,785,753
COLUMBIA COUNTY		
Lehigh Valley Coal Co.	433,081	457,378
Phila. & Reading Coal & Iron Co.	292,608	393,592
Hazle Brook Coal Co.	88,653	97,994
Clift Coal Co.	27,021	----------
Scotch Run Coal Co.	10,115	----------
Repplier Coal Co.	7,655	----------
Total	859,133	948,964
DAUPHIN COUNTY		
Susquehanna Collieries Co.	975,479	808,675
LACKAWANNA COUNTY		
Hudson Coal Co.	5,085,093	4,785,342
Glen Alden Coal Co.	3,783,692	3,395,023
Pennsylvania Coal Co.	2,415,520	2,459,471
Scranton Coal Co.	1,293,977	1,315,177
South Penn Collieries Co.	610,757	775,334
Temple Coal Co.	466,942	343,681
Lackawanna Coal Co., Ltd.	237,443	219,423
Racket Brook Coal Co.	198,727	104,203
Hillside Coal & Iron Co.	158,645	125,692
Glendale Anthracite Collieries	158,171	158,642
Archbald Coal Co.	121,747	----------
Price-Pancoast Coal Co.	117,918	227,349
Mid-City Coal Co.	80,299	63,717
Spencer Coal Co.	78,736	76,342
Humbert Coal Co.	72,962	99,350
Richmondale Coal Co.	68,130	----------
Green Ridge Coal Co.	58,132	62,955
Moffat Coal Co.	53,623	61,796
Scranton Anthracite Coal Co.	51,588	----------
Public Service Coal Co.	51,315	35,456
Lehigh Valley Coal Co.	48,096	51,196
Murrin Coal Co.	45,289	31,704
John Gibbons Coal Co.	44,700	51,621
Raub Coal Co.	44,223	42,188
Suffolk Anthracite Collieries	42,003	----------
Lackawanna Valley Fuel Co.	33,575	54,975
Meadowside Coal Co.	26,280	40,712
Lincoln Coal Co.	26,003	25,381
Jermyn & Co.	20,261	85,179
Dunmore Anthracite Coal Co.	8,062	3,334
Ransom Coal Co.	6,906	----------
West Jermyn Coal Co.	5,816	11,341
M. A. Franklin Coal Co.	5,418	----------
Barron Coal Co.	5,382	----------
Roaring Brook Coal Co.	1,971	27,200
Sunrise Coal Co.	1,960	10,091
Fireside Coal Co.	1,025	----------
E. E. Shumaker	175	----------
Langcliffe Collieries, Inc.	----------	83,562
Lackawanna Anthracite Mining Co.	----------	62,820
Grove Hill Coal Co.	----------	28,631
Throop Coal Co.	----------	15,237
Mine Run Coal Co.	----------	15,161
D. F. M. Co.	----------	5,988
Namura Coal Co.	----------	5,313
Beardslee & Lewis Coal Co.	----------	4,259
Childs Coal Co.	----------	3,150
Total	15,530,562	14,967,996

Production of Coal—Continued

Operators	Gross Tons 1927	1928
LUZERNE COUNTY		
Glen Alden Coal Co.	5,239,820	5,047,436
Lehigh & Wilkes-Barre Coal Co.	5,092,363	4,816,708
Lehigh Valley Coal Co.	3,466,698	3,420,908
Pennsylvania Coal Co.	2,717,954	2,066,107
Hudson Coal Co.	1,835,441	1,618,220
Susquehanna Collieries Co.	1,623,148	1,761,534
Jeddo-Highland Coal Co.	1,075,259	1,157,198
Coxe Brothers & Co., Inc.	829,380	750,549
Kingston Coal Co.	794,354	730,828
Lehigh Coal & Navigation Co.	550,346	375,146
Hillside Coal & Iron Co.	528,968	420,703
Pardee Brothers & Co., Inc.	466,508	448,420
West End Coal Co.	425,235	235,896
Temple Coal Co.	361,912	389,057
Hazle Brook Coal Co.	324,877	344,533
Alden Coal Co.	324,326	412,287
Suffolk Anthracite Collieries	254,902	----------
East Boston Coal Co.	235,359	265,196
Haddock Mining Co.	232,451	204,916
Mount Lookout Coal Co.	198,656	134,655
Chas. M. Dodson	188,553	102,000
Grand Tunnel Coal Co.	144,266	86,197
John Conlon Coal Co.	141,639	181,029
Langeliffe Collieries Co.	----------	126,224
Buck Mountain Coal Mining Co.	115,422	124,620
Sandy Run Coal Co.	110,434	117,656
George F. Lee Coal Co.	103,279	125,278
Pittston Coal Mining Co.	95,359	69,803
Raub Coal Co.	73,346	68,974
Miners Mills Coal Mining Co.	69,897	85,036
Lehigh & Wyoming Valley Coal Co.	68,859	77,012
Scranton Anthracite Coal Co.	66,770	62,244
Traders Coal Co.	62,453	----------
Yatesville Coal Co.	52,022	81,948
Stackhouse Coal Co.	49,700	31,918
Wolf Collieries Co.	48,090	25,203
Nanticoke Valley Coal Co.	43,586	55,006
Harwood Coal Co.	41,539	----------
John-Ames Coal Co.	38,665	32,543
Central Coal Co.	32,811	----------
Harris-Denly Coal Co.	30,819	20,842
Fox Hill Mining Co.	----------	30,430
Suscon Coal Co.	21,805	13,325
Clifford Coal Co.	21,586	43,085
Lehigh Coal Co.	----------	19,771
T. F. Quinn Coal Co.	16,296	27,864
Plymouth Red Ash Coal Co.	----------	19,951
East Alden Mining Co.	16,006	21,396
Troy Coal Co.	15,952	25,679
R. M. Cranston	11,636	12,762
Barry Coal Co.	10,141	4,700
Sullivan & Flynn	8,560	23,201
Hanover Coal Co.	----------	6,020
Perry Coal Co.	5,500	13,640
Lynott & Brown	3,915	4,869
Total	28,286,863	26,340,523
NORTHUMBERLAND COUNTY		
Phila. & Reading Coal & Iron Co.	2,158,884	2,285,039
Susquehanna Collieries Co.	1,596,285	1,201,663
Colonial Colliery Co.	727,899	733,786
Lehigh Valley Coal Co.	363,095	340,349
Northumberland Mining Co.	359,904	390,417
Shamokin Colliery Co.	229,772	229,661
Excelsior Coal Co.	220,500	220,200
Shipman Coal Co.	203,028	----------
South Penn Collieries Co.	92,363	64,145
Stevens Chapin Coal Co.	----------	85,910
Shamokin Coal Co.	72,136	47,941
Hickory Run Coal Co.	29,785	----------
Total	6,053,651	5,599,111

Production of Coal—Concluded

Operators	Gross Tons 1927	1928
SCHUYLKILL COUNTY		
Phila. & Reading Coal & Iron Co.	6,580,669	6,509,804
Lehigh Coal & Navigation Co.	2,015,772	1,893,270
Lehigh Valley Coal Co.	1,577,841	1,245,771
Hazle Brook Coal Co.	793,576	846,447
Pine Hill Coal Co.	681,876	693,575
Harleigh-Brookwood Coal Co.	589,460	590,698
Haddock Mining Co..	524,744	621,720
Lehigh & Wilkes-Barre Coal Co.	482,245	451,146
Locust Mountain Coal Co.	468,329	443,231
Saint Clair Coal Co.	353,154	296,425
Lytle Coal Co.	304,022	292,121
Mill Creek Coal Co.	296,514	383,374
Susquehanna Collieries Co.	265,710	238,241
Buck Run Coal Co.	265,075	279,556
Repplier Coal Co.	255,485	228,697
East Bear Ridge Colliery Co.	238,256	192,556
Coxe Brothers & Co., Inc.	213,560	153,332
Sherman Coal Corp.	141,686	149,625
South Penn Collieries Co.	141,642	100,049
Frackville Coal Co.	66,690	67,714
Gorman & Campion	60,618	60,288
Black Heath Coal Co.	12,397	16,733
Chestnut Hill Coal Co.	6,113	15,003
Butcher Creek Coal Co.	5,077	----------
Laurel Coal Mining Co.	2,970	8,731
Total	16,343,481	15,778,107
SULLIVAN COUNTY		
Connell Anthracite Mining Co.	111,429	98,744
Northern Anthracite Coal Co.	25,804	21,099
Total	137,233	119,843
SUSQUEHANNA COUNTY		
Hillside Coal & Iron Co.	120,570	100,560
Hudson Coal Co.	114,892	80,204
Total	235,462	180,764
WAYNE COUNTY		
Hillside Coal & Iron Co.	38,075	25,144
Northern Anthracite Collieries Corp.	8,800	2,705
Hudson Coal Co.	7,379	6,979
Total	54,254	34,828
Grand total	70,863,530	66,564,564

Summary of Statistics

	1927	1928
CARBON COUNTY		
Number of collieries in county	7	6
Number of mines in county	20	18
Number of mines in operation	20	18
Number of gaseous mines in operation	11	8
Number of non-gaseous mines in operation	9	10
Number of washeries in operation	1	1
Number of tons of coal shipped to market	2,251,624	1,667,293
Number of tons used at mines for steam and heat	92,713	80,504
Number of tons sold to local trade and used by employes	43,075	37,956
Number of tons produced (gross)	2,387,412	1,785,755
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		
Number of tons produced by mechanical mining		
Number of persons employed inside	2,936	2,930
Number of persons employed outside	1,150	1,172
Number of fatal accidents inside	10	10
Number of fatal accidents outside		2
Number of non-fatal accidents inside, 60 days' disability or more	41	47
Number of non-fatal accidents outside, 60 days' disability or more	16	12
Number of tons of coal produced per fatal accident inside	238,741	178,575
Number of tons produced per fatal accident inside and outside	238,741	148,813
Number of persons employed per fatal accident inside	294	293
Number of persons employed per fatal accident outside		585
Number of persons employed per fatal accident inside and outside	409	342
Number of wives made widows	8	10
Number of children made orphans	25	28
Number of gasoline locomotives		
Number of compressed air locomotives	4	4
Number of steam locomotives	26	26
Number of electric battery locomotives	8	8
Number of electric locomotives	48	44
Number of cylindrical boilers		1
Number of tubular boilers	20	20
Number of steam engines of all classes	20	20
Number of internal combustion engines (gas)		
Number of electric dynamos	4	3
Number of electric motors (except haulage)	359	335
Number of scraper units		
Number of conveyor units		
Number of loading machines		
Number of air compressors	14	12
Number of pumps of all classes	53	43
Number of pumps delivering water to surface	20	20
Number of fans in use	16	12
Number of new mines opened		
Number of old mines abandoned		
COLUMBIA COUNTY		
Number of collieries in county	5	3
Number of mines in county	13	9
Number of mines in operation	13	9
Number of gaseous mines in operation	10	9
Number of non-gaseous mines in operation	3	
Number of washeries in operation	2	1
Number of tons of coal shipped to market	741,924	824,503
Number of tons used at mines for steam and heat	97,030	105,578
Number of tons sold to local trade and used by employes	20,179	18,383
Number of tons produced (gross)	859,133	948,964
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		
Number of tons produced by mechanical mining		
Number of persons employed inside	1,348	1,122
Number of persons employed outside	538	404
Number of fatal accidents inside	4	1
Number of fatal accidents outside		
Number of non-fatal accidents inside, 60 days' disability or more	17	15
Number of non-fatal accidents outside, 60 days' disability or more	9	3
Number of tons of coal produced per fatal accident inside	214,783	948,964
Number of tons produced per fatal accident inside and outside	214,783	948,964
Number of persons employed per fatal accident inside	337	1,122
Number of persons employed per fatal accident outside		
Number of persons employed per fatal accident inside and outside	472	1,526
Number of wives made widows	3	
Number of children made orphans	12	
Number of gasoline locomotives	1	
Number of compressed air locomotives	4	4
Number of steam locomotives	14	6

Summary of Statistics—Continued

	1927	1928
COLUMBIA COUNTY—Continued		
Number of electric battery locomotives	5	5
Number of electric locomotives	20	21
Number of cylindrical boilers	----------	----------
Number of tubular boilers	30	23
Number of steam engines of all classes	39	29
Number of internal combustion engines (gas)	1	----------
Number of electric dynamos	4	5
Number of electric motors (except haulage)	41	73
Number of scraper units	----------	----------
Number of conveyor units	----------	----------
Number of loading machines	----------	----------
Number of air compressors	12	11
Number of pumps of all classes	18	12
Number of pumps delivering water to surface	10	8
Number of fans in use	10	9
Number of new mines opened	----------	----------
Number of old mines abandoned	----------	----------
DAUPHIN COUNTY		
Number of collieries in county	2	2
Number of mines in county	5	4
Number of mines in operation	5	4
Number of gaseous mines in operation	5	4
Number of non-gaseous mines in operation	----------	----------
Number of washeries in operation	1	1
Number of tons of coal shipped to market	833,937	679,770
Number of tons used at mines for steam and heat	118,482	106,988
Number of tons sold to local trade and used by employes	23,060	21,917
Number of tons produced (gross)	975,479	808,675
Number of tons produced by compressed air machines	----------	----------
Number of tons produced by electrical machines	----------	----------
Number of tons produced by mechanical mining	----------	----------
Number of persons employed inside	1,589	1,645
Number of persons employed outside	588	620
Number of fatal accidents inside	5	1
Number of fatal accidents outside	1	----------
Number of non-fatal accidents inside, 60 days' disability or more	25	33
Number of non-fatal accidents outside, 60 days' disability or more	3	5
Number of tons of coal produced per fatal accident inside	195,096	808,675
Number of tons produced per fatal accident inside and outside	162,580	808,675
Number of persons employed per fatal accident inside	318	1,645
Number of persons employed per fatal accident outside	588	----------
Number of persons employed per fatal accident inside and outside	363	2,265
Number of wives made widows	6	1
Number of children made orphans	14	----------
Number of gasoline locomotives	----------	----------
Number of compressed air locomotives	----------	----------
Number of steam locomotives	4	4
Number of electric battery locomotives	----------	----------
Number of electric locomotives	20	20
Number of cylindrical boilers	2	2
Number of tubular boilers	20	20
Number of steam engines of all classes	16	16
Number of internal combustion engines (gas)	----------	----------
Number of electric dynamos	5	6
Number of electric motors (except haulage)	52	56
Number of scraper units	----------	----------
Number of conveyor units	----------	----------
Number of loading machines	----------	----------
Number of air compressors	6	6
Number of pumps of all classes	46	53
Number of pumps delivering water to surface	12	13
Number of fans in use	9	13
Number of new mines opened	----------	----------
Number of old mines abandoned	----------	----------
LACKAWANNA COUNTY		
Number of collieries in county	63	66
Number of mines in county	154	149
Number of mines in operation	154	149
Number of gaseous mines in operation	47	50
Number of non-gaseous mines in operation	107	99
Number of washeries in operation	5	3
Number of tons of coal shipped to market	14,153,318	13,534,633
Number of tons used at mines for steam and heat	882,489	852,015
Number of tons sold to local trade and used by employes	494,755	581,348
Number of tons produced (gross)	15,530,562	14,967,996

Summary of Statistics—Continued

	1927	1928
LACKAWANNA COUNTY—Continued		
Number of tons produced by electrical machines		772,926
Number of tons produced by mechanical mining		964,954
Number of persons employed inside	30,449	30,102
Number of persons employed outside	7,239	6,726
Number of fatal accidents inside	120	91
Number of fatal accidents outside	7	12
Number of non-fatal accidents inside, 60 days' disability or more	373	422
Number of non-fatal accidents outside, 60 days' disability or more	41	49
Number of tons of coal produced per fatal accident inside	129,421	164,483
Number of tons produced per fatal accident inside and outside	122,288	145,320
Number of persons employed per fatal accident inside	254	331
Number of persons employed per fatal accident outside	1,034	561
Number of persons employed per fatal accident inside and outside	297	358
Number of wives made widows	94	79
Number of children made orphans	221	196
Number of gasoline locomotives	6	4
Number of compressed air locomotives		
Number of steam locomotives	80	79
Number of electric battery locomotives	59	57
Number of electric locomotives	792	685
Number of cylindrical boilers	9	7
Number of tubular boilers	295	313
Number of steam engines of all classes	574	509
Number of internal combustion engines (gas)	2	2
Number of electric dynamos	121	108
Number of electric motors (except haulage)	2,525	2,683
Number of scraper units		122
Number of conveyor units		20
Number of loading machines		7
Number of air compressors	198	174
Number of pumps of all classes	933	853
Number of pumps delivering water to surface	172	141
Number of fans in use	109	103
Number of new mines opened		
Number of old mines abandoned		
LUZERNE COUNTY		
Number of collieries in county	91	90
Number of mines in county	348	322
Number of mines in operation	348	322
Number of gaseous mines in operation	193	192
Number of non-gaseous mines in operation	155	130
Number of washeries in operation	5	7
Number of tons of coal shipped to market	24,683,731	23,140,141
Number of tons used at mines for steam and heat	2,314,459	1,926,181
Number of tons sold to local trade and used by employes	1,288,673	1,274,201
Number of tons produced (gross)	28,286,863	26,340,523
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		80,042
Number of tons produced by mechanical mining		562,926
Number of persons employed inside	52,359	50,757
Number of persons employed outside	14,256	13,545
Number of fatal accidents inside	181	200
Number of fatal accidents outside	13	8
Number of non-fatal accidents inside, 60 days' disability or more	667	752
Number of non-fatal accidents outside, 60 days' disability or more	66	88
Number of tons of coal produced per fatal accident inside	156,281	131,703
Number of tons produced per fatal accident inside and outside	145,809	126,637
Number of persons employed per fatal accident inside	289	254
Number of persons employed per fatal accident outside	1,097	1,693
Number of persons employed per fatal accident inside and outside	343	309
Number of wives made widows	146	143
Number of children made orphans	385	316
Number of gasoline locomotives	4	3
Number of compressed air locomotives	23	25
Number of steam locomotives	249	239
Number of electric battery locomotives	153	150
Number of electric locomotives	863	880
Number of cylindrical boilers	22	16
Number of tubular boilers	689	643
Number of steam engines of all classes	1,721	1,743
Number of internal combustion engines (gas)	17	9
Number of electric dynamos	191	158
Number of electric motors (except haulage)	3,597	3,839
Number of scraper units		105
Number of conveyor units		60
Number of loading machines		6
Number of air compressors	230	267

Summary of Statistics—Continued

	1927	1928
LUZERNE COUNTY—Continued		
Number of pumps of all classes	1,634	1,593
Number of pumps delivering water to surface	347	356
Number of fans in use	259	260
Number of new mines opened		
Number of old mines abandoned		
NORTHUMBERLAND COUNTY		
Number of collieries in county	21	18
Number of mines in county	60	56
Number of mines in operation	60	56
Number of gaseous mines in operation	36	32
Number of non-gaseous mines in operation	24	24
Number of washeries in operation	3	2
Number of tons of coal shipped to market	5,269,212	4,894,231
Number of tons used at mines for steam and heat	591,023	523,461
Number of tons sold to local trade and used by employes	193,416	181,419
Numer of tons produced (gross)	6,053,651	5,599,111
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		11,546
Number of tons produced by mechanical mining		243,985
Number of persons employed inside	10,923	10,396
Number of persons employed outside	3,717	3,431
Number of fatal accidents inside	36	30
Number of fatal accidents outside	4	1
Number of non fatal accidents inside, 60 days' disability or more	182	156
Number of non-fatal accidents outside, 60 days' disability or more	31	22
Number of tons of coal produced per fatal accident inside	168,157	186,637
Number of tons produced per fatal accident inside and outside	151,341	180,616
Number of persons employed per fatal accident inside	303	344
Number of persons employed per fatal accident outside	929	3,431
Number of persons employed per fatal accident inside and outside	366	443
Number of wives made widows	26	22
Number of children made orphans	68	48
Number of gasoline locomotives	1	1
Number of compressed air locomotives		
Number of steam locomotives	44	41
Number of electric battery locomotives	26	18
Number of electric locomotives	104	111
Number of cylindrical boilers	2	2
Number of tubular boilers	160	144
Number of steam engines of all classes	206	174
Number of internal combustion engines (gas)	1	
Number of electric dynamos	32	34
Number of electric motors (except haulage)	569	607
Number of scraper units		34
Number of conveyor units		49
Number of loading machines		
Number of air compressors	41	38
Number of pumps of all classes	222	215
Number of pumps delivering water to surface	87	83
Number of fans in use	74	73
Number of new mines opened		
Number of old mines abandoned		
SCHUYLKILL COUNTY		
Number of collieries in county	72	60
Number of mines in county	199	180
Number of mines in operation	199	180
Number of gaseous mines in operation	136	124
Number of non-gaseous mines in operation	63	56
Number of washeries in operation	5	3
Number of tons of coal shipped to market	14,220,739	13,838,209
Number of tons used at mines for steam and heat	1,710,818	1,518,201
Number of tons sold to local trade and used by employes	411,924	421,697
Number of tons produced (gross)	16,343,481	15,778,107
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		
Number of tons produced by mechanical mining		198,070
Number of persons employed inside	26,672	25,835
Number of persons employed outside	11,735	10,263
Number of fatal accidents inside	98	78
Number of fatal accidents outside	11	9
Number of non-fatal accidents inside, 60 days' disability or more	556	552
Number of non-fatal accidents outside, 60 days' disability or more	107	99
Number of tons of coal produced per fatal accident inside	166,770	202,283
Number of tons produced per fatal accident inside and outside	149,940	181,358

Summary of Statistics—Continued

	1927	1928
SCHUYLKILL COUNTY—Continued		
Number of persons employed per fatal accident inside	272	331
Number of persons employed per fatal accident outside	1,067	1,140
Number of persons employed per fatal accident inside and outside	352	415
Number of wives made widows	70	53
Number of children made orphans	197	130
Number of gasoline locomotives	2	2
Number of compressed air locomotives	50	48
Number of steam locomotives	225	204
Number of electric battery locomotives	46	52
Number of electric locomotives	306	305
Number of cylindrical boilers		4
Number of tubular boilers	642	580
Number of steam engines of all classes	595	553
Number of internal combustion engines (gas)	18	18
Number of electric dynamos	56	70
Number of electric motors (except haulage)	1,456	1,669
Number of scraper units		11
Number of conveyor units		45
Number of loading machines		
Number of air compressors	178	179
Number of pumps of all classes	533	519
Number of pumps delivering water to surface	227	216
Number of fans in use	162	159
Number of new mines opened		
Number of old mines abandoned		
SULLIVAN COUNTY		
Number of collieries in county	2	2
Number of mines in county	4	4
Number of mines in operation	4	4
Number of gaseous mines in operation		
Number of non-gaseous mines in operation	4	4
Number of washeries in operation		
Number of tons of coal shipped to market	104,074	88,805
Number of tons used at mines for steam and heat	26,620	24,150
Number of tons sold to local trade and used by employes	6,539	6,888
Number of tons produced (gross)	137,233	119,843
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		
Number of tons produced by mechanical mining		
Number of persons employed inside	481	442
Number of persons employed outside	153	126
Number of fatal accidents inside		2
Number of fatal accidents outside		1
Number of non-fatal accidents inside, 60 days' disability or more	3	8
Number of non-fatal accidents outside, 60 days' disability or more	1	1
Number of tons of coal produced per fatal accident inside		59,922
Number of tons produced per fatal accident inside and outside		39,948
Number of persons employed per fatal accident inside		221
Number of persons employed per fatal accident outside		126
Number of persons employed per fatal accident inside and outside		189
Number of wives made widows		2
Number of children made orphans		7
Number of gasoline locomotives		
Number of compressed air locomotives		
Number of steam locomotives		
Number of electric battery locomotives		
Number of electric locomotives		14
Number of cylindrical boilers		
Number of tubular boilers	13	13
Number of steam engines of all classes	13	15
Number of internal combustion engines (gas)		
Number of electric dynamos	5	5
Number of electric motors (except haulage)	4	15
Number of scraper units		
Number of conveyor units		
Number of loading machines		
Number of air compressors	3	5
Number of pumps of all classes	5	3
Number of pumps delivering water to surface		
Number of fans in use	3	3
Number of new mines opened		
Number of old mines abandoned		
SUSQUEHANNA COUNTY		
Number of collieries in county		
Number of mines in county	3	3

Summary of Statistics—Continued

	1927	1928
SUSQUEHANNA COUNTY—Continued		
Number of mines in operation	3	3
Number of gaseous mines in operation		
Number of non-gaseous mines in operation	3	3
Number of washeries in operation		
Number of tons of coal shipped to market	211,300	161,144
Number of tons used at mines for steam and heat	18,302	13,785
Number of tons sold to local trade and used by employes	5,860	5,835
Number of tons produced (gross)	235,462	180,764
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		12,348
Number of tons produced by mechanical mining		42,000
Number of persons employed inside	693	640
Number of persons employed outside	172	153
Number of fatal accidents inside	2	1
Number of fatal accidents outside		
Number of non-fatal accidents inside, 60 days' disability or more	5	8
Number of non-fatal accidents outside, 60 days' disability or more		
Number of tons of coal produced per fatal accident inside	117,731	180,764
Number of tons produced per fatal accident inside and outside	117,731	180,764
Number of persons employed per fatal accident inside	347	640
Number of persons employed per fatal accident outside		
Number of persons employed per fatal accident inside and outside	433	793
Number of wives made widows	1	1
Number of children made orphans	1	
Number of gasoline locomotives		
Number of compressed air locomotives		
Number of steam locomotives	3	3
Number of electric battery locomotives		
Number of electric locomotives	24	20
Number of cylindrical boilers		
Number of tubular boilers	23	23
Number of steam engines of all classes	26	24
Number of internal combustion engines (gas)		
Number of electric dynamos	5	4
Number of electric motors (except haulage)	75	75
Number of scraper units		2
Number of conveyor units		1
Number of loading machines		
Number of air compressors		
Number of pumps of all classes		30
Number of pumps delivering water to surface		7
Number of fans in use	1	3
Number of new mines opened		
Number of old mines abandoned		
WAYNE COUNTY		
Number of collieries in county	1	1
Number of mines in county	1	4
Number of mines in operation	1	4
Number of gaseous mines in operation		
Number of non-gaseous mines in operation	1	4
Number of washeries in operation		
Number of tons of coal shipped to market	48,474	31,033
Number of tons used at mines for steam and heat	4,381	2,638
Number of tons sold to local trade and used by employes	1,399	1,157
Number of tons produced (gross)	54,254	34,828
Number of tons produced by compressed air machines		
Number of tons produced by electrical machines		
Number of tons produced by mechanical mining		* 87,238
Number of persons employed inside	502	403
Number of persons employed outside	148	119
Number of fatal accidents inside		
Number of fatal accidents outside		
Number of non-fatal accidents inside, 60 days' disability or more	4	
Number of non-fatal accidents outside, 60 days' disability or more		
Number of tons of coal produced per fatal accident inside		
Number of tons produced per fatal accident inside and outside		
Number of persons employed per fatal accident inside		
Number of persons employed per fatal accident outside		
Number of persons employed per fatal accident inside and outside		
Number of wives made widows		
Number of children made orphans		
Number of gasoline locomotives		1
Number of compressed air locomotives		
Number of steam locomotives	2	2
Number of electric battery locomotives	3	3
Number of electric locomotives	6	6
Number of cylindrical boilers		
Number of tubular boilers	4	4

Summary of Statistics—Concluded

	1927	1928
WAYNE COUNTY—Continued		
Number of steam engines of all classes	26	24
Number of internal combustion engines (gas)		
Number of electric dynamos	3	3
Number of electric motors (except haulage)	84	79
Number of scraper units		13
Number of conveyor units		
Number of loading machines		
Number of air compressors	1	8
Number of pumps of all classes		29
Number of pumps delivering water to surface		4
Number of fans in use	2	3
Number of new mines opened		
Number of old mines abandoned		

* Includes Lackawanna & Susquehanna Counties

Table 1—Operators, Location of Collieries, Railroads, 1928

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
CARBON COUNTY						
Coleraine Colliery Co.						
Coleraine Washery	16	E. D. Ames	Junedale	Charles Dougherty	Junedale	L. V.; Reading; C. R. R. of N. J.
Coxe Brothers & Co., Inc.						
Beaver Meadow	16	Thomas P. Thomas	Wilkes-Barre	George R. Wood	Hazleton	L. V.
Evans Colliery Co.						
Evans	16	James S. Burgess	Hazleton	James S. Burgess	Hazleton	L. V.
Lehigh Coal & Navigation Co.						
Coaldale	17	J. B. Warriner	Lansford	E. G. Evans	Lansford	L. & N. E.
Lansford	17	"	"	D. C. Helms	Lansford	L. & N. E.
Nesquehoning	17	"	"	F. B. Nold	Lansford	C. R. R. of N. J.; L. & N. E.
Lehigh Valley Coal Co.						
Spring Brook	16	Thomas P. Thomas	Wilkes-Barre	George R. Wood	Hazleton	L. V.
COLUMBIA COUNTY						
Hazle Brook Coal Co.						
Midvalley	22	E. P. Humphrey	Jeddo	C. F. Snyder	Wilburton	L. V.
Lehigh Valley Coal Co.						
Centralia	22	Thomas P. Thomas	Wilkes-Barre	H. J. Heffner	Centralia	Erie
Continental Washery	22	"	"	"	"	"
Phila. & Reading Coal & Iron Co.						
Potts	22	J. R. Sharp	Pottsville	J. J. Herrity	Ashland	Reading
DAUPHIN COUNTY						
Susquehanna Collieries Co.						
Short Mountain	25	D. V. Randall	Wilkes-Barre	E. A. Van Horn	Lykens	Pa.
Short Mountain Washery	25	"	"	"	"	"
Williamstown	25	"	"	"	"	"
LACKAWANNA COUNTY						
Beardslee & Lewis Coal Co.						
Stone Quarry	1	John S. Rees	Peckville	John S. Rees	Peckville	None.
Childs Coal Co.						
No. 1 mine	2	Frank Passarelli	Scranton			Truck to N. Y. O. & W.
D. F. M. Co.			1751 Sanderson Ave			
No. 1 mine	2			Leonard Davies	Scranton (825 N. Lincoln Ave)	Erie
Dunmore Anthracite Coal Co.						
Dunmore	6	M. J. Boychuk	Dunmore			Erie
Fireside Coal Co.						
Fireside (x)						

M. A. Franklin Coal Co.						
Franklin Washery (c)	3					
John Gibbons Coal Co.						
Gibbons	5	Joseph M. Gallagher	Scranton			D. L. & W; D. & H.
Glen Alden Coal Co.						
Archbald	5	S. D. Dimmick	Scranton	W. E. Watkins	Taylor	D. L. & W.
Baker	5	"	"	T. Lester Oliver	Scranton	"
Diamond	3	"	"	S. M. Harrison	Scranton	"
Hampton Plants	5	"	"	C. R. Seems	Scranton	"
Hyde Park	5	"	"	W. J. Davis	Scranton	"
Pyne	4	"	"	W. F. Powell	Scranton	"
Storrs	6	"	"	J. L. Reynolds	Dickson City	"
Taylor	4	"	"	F. A. Gleason	Scranton	"
Glendale Anthracite Collieries						
Glendale	1			L. F. Welchel	Jessup	D. & H.
Green Ridge Coal Co.						
Green Ridge	4	David Lloyd	Scranton			Erie
Grove Hill Coal Co.						
Lackawanna	6	George Wilson	Dunmore			Truck
Hillside Coal & Iron Co.						
Forest City	1	G. M. Gillette	Scranton	Peter Harry	Forest City	Erie
Hudson Coal Co.						
Clinton	1	Cadwallader Evans, Jr.	Scranton	F. L. Zollinger	Vandling	D. & H; Erie
Coal Brook	2	"	"	Evan Williams	Carbondale	D. & H.
Eddy Creek	3	"	"	William Davison	Olyphant	"
Gravity Slope	2	"	"	Edison Thomas	Archbald	"
Greenwood	5	"	"	J. D. Price	Moosic	"
Jermyn	2	"	"	A. J. Wiegand	Jermyn	"
Marvine	3	"	"	K. S. Hughes	Scranton	"
Olyphant	6	"	"	William Davison	Olyphant	"
Powderly	2	"	"	Arthur Williams	Carbondale	"
Gravity Slope Washery	2	"	"	Edison Thomas	Archbald	"
Humbert Coal Co.						
Sunnyside	1	M. J. Loftus	Jessup	M. J. Loftus	Jessup	Erie
Jermyn & Co.						
Jermyn	4	John P. Corcoran	Old Forge			Erie; L. V; D. L. & W.
Lackawanna Anthracite Mining Co.						
Richmondale	1	Harry Rubin	Carbondale	Thomas Gillen	Carbondale	N. Y. O. & W.
Lackawanna Coal Co., Ltd.						
Lackawanna	6	W. P. Jennings	Scranton	John Mellow	Blakely	Erie
Lackawanna Valley Fuel Co.						
Old Buffalo Mine	1	G. H. Montgomery	Carbondale	G. H. Montgomery	Carbondale	N. Y. O. & W.
Glenwood Washery	2			William Davies	Mayfield	N. Y. O. & W.
Throop Washery	6	Frank Carlucci	Scranton	S. J. Connell	Dickson City	N. Y. O. & W.
Langcliffe Collieries, Inc.						
Boland Mine	1	E. B. Jermyn, Jr.	Scranton	J. P. Corcoran	Carbondale	D. & H.
Tappans Mine	2	John P. Corcoran	Scranton	John Sweeney	Archbald	D. & H.

(x)—Not reported.
(c)—Abandoned.

Table 1—Operators, Location of Collieries, Railroads, 1928—Continued

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
LACKAWANNA COUNTY—Cont'd.						
Lehigh Valley Coal Co.						
Broadwell	7	Thomas P. Thomas	Wilkes-Barre	W. A. Reutelhuber	Wilkes-Barre	D. & H.
Lincoln Coal Co.						
Oak Run	2	John Allen	Jermyn			D. & H.
Meadowside Coal Co.						
Meadowside	6	J. O. Christian	Scranton			Erie; D. L. & W.
Mid-City Coal Co.						
Bull's Head	3	Jay Law	Scranton	James Harper	Scranton	Trucks to N. Y. O. & W.
Mine Run Coal Co.						
Devil's Eye Brow Mine	1	Vincenzo DeAngelis	Jermyn	Vincenzo DeAngelis	Jermyn	D. & H.
Moffat Coal Co.						
Moffat	5	P. J. Conaboy	Scranton			L. & W. V.
Murrin Coal Co.						
Fallbrook	1	Frank Murrin	Carbondale	John Murrin	Carbondale	N. Y. O. & W.
Namura Coal Co.						
Namura	5	Charles Namura	Moosic			D. & H.
Pennsylvania Coal Co.						
Erie Mine	2	G. M. Gillette	Dunmore	Andrew D. Bryden	Dunmore	Erie
Old Forge	4	"	"	John N. Cooke	Old Forge	"
No. 1	6	"	"	H. E. Yewen	Scranton	"
No. 5	4	"	"	William Muir	Scranton	"
Underwood	6	"	"	L. F. Sanner	Scranton	"
Powell & Jennings Coal Co.						
Rocky Glen *	5					
Price-Pancoast Coal Co.						
Pancoast	4	Floyd G. Wilcox	Scranton	Abe Pierson	Throop	N. Y. O. & W; D. L. & W.
Public Service Coal Co.						
Marshwood	6	William Harris	Forty Fort			Erie
Racket Brook Coal Co.						
Racket Brook	1	Charles Dorrance	Scranton	John A. Hines	Carbondale	D. & H.
Ransom Coal Co.						
Ransom (a)	4					
Raub Coal Co.						
Austin Tunnel	7	Gwillym Edwards	Luzerne	Gwillym Edwards	Luzerne	L. V.
Roaring Brook Coal Co.						
Roaring Brook	4	E. F. McGlynn	Scranton			Trucks
Scranton Coal Co.						
Capouse	4	James L. Cooney	Scranton	Joseph Mayers	Scranton	N. Y. O. & W.
Johnson	6	"	"	Joseph Mayers	Scranton	O. & W.

* Idle for a number of years.

(a) Ransom Colliery abandoned December 31, 1927.

Mt. Pleasant	4	"	"	Joseph Mayers	Scranton	N. Y. O. & W.
Ontario	6	"	"	Joseph Mayers	Scranton	O. & W.
Pine Brook	4	"	"	Joseph Mayers	Scranton	N. Y. O. & W.
Raymond Mine	2	"	"	Edward Evans	Peckville	N. Y. O. & W.
Richmond No. 3	6	"	"	Joseph Mayers	Scranton	O. & W.
Riverside	2	"	"	Edward Evans	Peckville	N. Y. O. & W.
West Ridge	3	"	"	Joseph Mayers	Scranton	Trucks
South Penn Collieries Co., R. H. Buchanan, Receiver						
Legitts Creek	3	Thomas F. Steele	Scranton	Thomas F. Steele	Scranton	D. & H.
Von Storch	3	"	"	"	"	"
Spencer Coal Co.						
Spencer	6	David Spruks	Scranton	Thomas Baggott	Scranton	Erie
Sunrise Coal Co.						
Sunrise Stripping	2	Solomon Benjamin	Scranton			N. Y. O. & W.
Temple Coal Co.						
Northwest	1	W. P. Jennings	Scranton	John Mellow	Simpson	N. Y. O. & W.
Sterrick Creek	2			John Mellow	Jermyn	Erie
Throop Coal Co.						
Crippen	6	Richard Howells	Scranton			Truck
West Jermyn Coal Co.						
West Jermyn	2			J. Loughney	Jermyn	N. Y. O. & W.
LUZERNE COUNTY						
Alden Coal Co.						
Alden	14	William S. Norton	Alden Station	William S. Norton	Alden Station	C. R. R. of N. J.
Alden Washery	14					
Barry Coal Co.						
Barry Stripping	12	E. H. Whitney	Kingston	E. H. Whitney	Kingston	None
Buck Mountain Coal Mining Co.						
Gowen	15	E. P. Humphrey	Jeddo	Sol Jenkins	Fern Glen	Pa.
Central Coal Co.						
Wyoming †	10					
Clifford Coal Co., Receivers						
Clifford	7	M. H. O'Toole	Avoca	M. H. O'Toole	Avoca	Erie
Clifford Washery	7					
Clifford Stripping	7					
John Conlon Coal Co.						
Conlon	10	W. R. Conlon	Hudson	W. R. Conlon	Hudson	D. & H.; Erie
Madeira	10	"	"	"	"	"
Coxe Brothers & Co., Inc.						
Drifton	15	Thomas P. Thomas	Wilkes-Barre	R. A. Evans	Hazleton	L. V.
Eckley & Buck Mountain	15	"	"	R. A. Evans	Hazleton	L. V.
Deringer & Tomhicken	15	"	"	George R. Wood	Hazleton	L. V.
R. M. Cranston						
Cranston	8	R. M. Cranston	Kingston			Truck

† Not operating in 1928.

Table 1—Operators, Location of Collieries, Railroads, 1928—Continued

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
LUZERNE COUNTY—Cont'd.						
Charles M. Dodson & Co.						
Beaver Brook	16	E. S. Christ	Beaver Brook	E. S. Christ	Beaver Brook	C. R. R. of N. J.; L. V.
East Alden Mining Co.						
East Alden	14	A. F. Connell	Nanticoke	A. F. Connell	Nanticoke	L. V
East Boston Coal Co.						
East Boston	10	W. T. Payne	Kingston	Howard Reilly	Forty Fort	D. L. & W.; L. V.; D. & H.; Pa.
Fox Hill Mining Co.						
Fox Hill	10	William D. Powell	Forty Fort	William D. Powell	Forty Fort	None
Glen Alden Coal Co.						
Auchincloss	14	S. D. Dimmick	Scranton	W. C. Fancourt	Kingston	D. L. & W.
Avondale	13	"	"	John Mould	Kingston	"
Bliss	14	"	"	Henry Kittle	Nanticoke	"
Hallstead	7	"	"	George Bechler	Duryea	"
Loomis	13	"	"	Walter Fancourt	Kingston	"
Loomis Power Plant	13	"	"	Walter Fancourt	Kingston	"
Pettebone	10	"	"	G. P. Troutman	Kingston	"
Truesdale	13	"	"	David Girvan	Nanticoke	"
Woodward	12	"	"	H. N. Smith	Kingston	"
Grand Tunnel Coal Co.						
West Nanticoke	13	H. O. Staples	Scranton	A. G. Getty	Nanticoke	Pa.
Haddock Mining Co.						
Black Diamond	10	John J. Walsh	Kingston	Thomas Stratford	Luzerne	D. L. & W.; L. V.
Hanover Coal Co.						
Cullen Washery	12			Edward Cockran	Plymouth	C. R. R. of N. J.; D. L. & W.
Harris Denly Coal Co.						
Kintz	9	William Harris	Forty Fort	William Harris	Pittston	Trucks to L. V.; D. L. & W.
Hazle Brook Coal Co.						
Hazle Brook	15	E. P. Humphrey	Jeddo	W. A. Merdine	Hazle Brook	L. V.
Upper Lehigh	15	"	"	D. W. Muir	Upper Lehigh	C. R. R. of N. J.
Hillside Coal & Iron Co.						
Butler	7	G. M. Gillette	Dunmore	Thomas P. Huntley	Pittston	Erie
Hudson Coal Co.						
Baltimore No. 5 / Baltimore No. 2	11	Cadwallader Evans, Jr.	Scranton	K. A. Lambert	Parsons	D. & H.
Laflin	7	"	"	Thomas Coates	Laflin	"
Loree No. 5	12	"	"	Edward Flynn	Plymouth	"
Pine Ridge	10	"	"	Edward Manning	Miners Mills	"

Jeddo-Highland Coal Co.						
Highland No. 2	15	A. B. Jessup	Jeddo	James Connors	Jeddo	L. V.
Highland No. 5	15	"	"	Patrick J. Marley	"	"
Jeddo No. 4	15	"	"	Jacob Steidle	"	"
Jeddo No. 7	15	"	"	James Renshaw	"	"
John-Ames Coal Co.						
Franklin Washery	11			W. C. Horlacher	Wilkes-Barre	L. V.
Kingston Coal Co.						
Gaylord	12	F. E. Zerbey	Kingston	T. H. Williams	Kingston	D. L. & W.; D. & H.; Pa.; C. R. R. of N. J.
Kingston No. 2	12	"	"	"	"	D. L. & W.; D. & H.; Pa.; C. R. R. of N. J.
Kingston No. 4	9	"	"	"	"	L. V.; D. L. & W.; Pa.; D. & H.
Langcliffe Collieries Inc.						
Avoca	7	E. B. Jermyn	Scranton	J. P. Corcoran	Avoca	D. & H.; Erie
George F. Lee Coal Co.						
Chauncey	13	George F. Lee	Wilkes-Barre	Russell Doland	Plymouth	D. L. & W.
Lehigh Coal Co.						
Hazle Mountain No. 5	15	T. L. Evans	Wilkes-Barre			Pa.
Lehigh Coal & Navigation Co.			(Miners Bank Bldg.)			
Cranberry	16	J. B. Warriner	Lansford	A. L. Walbridge	Hazleton	L. V.
Lehigh Valley Coal Co.						
Dorrance	11	Thomas P. Thomas	Wilkes-Barre	J. H. Haertter	Wilkes-Barre	L. V.
Exeter	9	G. P. Gallagher	"	K. F. Arbogast	Pittston	"
Franklin	11	Thomas P. Thomas	"	P. S. Warriner	Wilkes-Barre	"
Hazleton No. 1	15	Thomas P. Thomas	"	R. A. Evans	Hazleton	"
Hazleton Shaft & Stockton	15	Thomas P. Thomas	"	"	"	"
Heidelberg	7	Thomas P. Thomas	"	W. A. Reutelhuber	Wilkes-Barre	"
Maltby	9	G. P. Gallagher	"	K. F. Arbogast	Swoyersville	"
Mineral Spring	10	Thomas P. Thomas	"	P. S. Warriner	Wilkes-Barre	"
Prospect (Susq. div.)	9	G. P. Gallagher	"	J. H. Haertter	"	"
Prospect (Henry)	10	Thomas P. Thomas	"	"	Kingston	"
Seneca	7	Thomas P. Thomas	"	W. A. Reutelhuber	Wilkes-Barre	"
Spring Mountain	16	Thomas P. Thomas	"	George R. Wood	Hazleton	"
Stevens xx	9					
Warrior Run	13	Thomas P. Thomas	Wilkes-Barre	Paul Warriner	Wilkes-Barre	L. V.
Westmoreland	9	G. P. Gallagher	"	K. F. Arbogast	Wyoming	"
William A.	7	Thomas P. Thomas	"	W. A. Reutelhuber	Wilkes-Barre	"
Lehigh & Wilkes-Barre Coal Co.						
Buttonwood No. 22	13	Edward Griffith	Wilkes-Barre	John Joseph	Wilkes-Barre	C. R. R. of N. J.
Hollenback No. 2	11	"	"	W. L. Davis	"	"
Lance No. 11	12	"	"	R. G. Carpenter	"	"
Maxwell No. 20	13	"	"	Thomas Gambold	"	"
Nottingham No. 15	12	"	"	R. G. Carpenter	"	"
So. Wilkes-Barre No. 5	11	"	"	J. D. Joseph	"	"

xx Idle.

Table 1—Operators, Location of Collieries, Railroads, 1928—Continued

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
LUZERNE COUNTY—Cont'd.						
Lehigh & Wilkes-Barre Coal Co.—Cont'd.						
Stanton No. 7	11	Edward Griffith	Wilkes-Barre	W. L. Davis	Wilkes-Barre	C. R. R. of N. J.
Sugar Notch No. 9	13	"	"	Thomas Gambold	"	"
Wanamie No. 18	14	"	"	Lewis J. Davies	Wanamie	"
Lehigh-Wyoming Valley Coal Co.						
Florence	7	C. E. Banker	Kingston	Bernard Holleran	Dupont	Erie
Lynott & Brown						
Stripping	8			Joseph A. Lynott	Pittston	Truck
Miners Mills Coal Mining Co.						
Miners Mills	10	Gwillym Edwards	Luzerne	R. Bruce Weir	Wyoming	L. V.
Mt. Lookout Coal Co.						
Mt. Lookout	9	W. P. Jennings	Scranton	Phil Maue	Wyoming	L. V.; D. L. & W.
Nanticoke Valley Coal Co.						
Nanticoke Washery No. 5	14	Nat Stevens	Wilkes-Barre	Nat Stevens	Wilkes-Barre	Pa.
Pardee Brothers & Co. Inc.						
Beaver Brook	16	John Crooks	Lattimer Mines			L. V.
Lattimer	15	"	"			"
Pennsylvania Coal Co.						
Central	7	G. M. Gillette	Scranton	Thomas Ridgley	Avoca	Erie
Ewen	8	"	"	J. C. Johnson	Pittston	"
No. 14	8	"	"	John Brown	"	"
No. 6	8	"	"	Elkins Read	"	"
No. 9	8	"	"	John J. Wynne	"	"
Pittston Coal Mining Co.						
Hadleigh	13	W. F. Connelly	Pittston	Frank Ward	Sugar Notch	C. R. R. of N. J.
Plymouth Red Ash Coal Co.						
Red Ash	12	John Nayduch	Mayfield	Harry Adams	Plymouth	D. L. & W.
T. F. Quinn Coal Co.						
Consolidated	7	T. F. Quinn	Scranton	James J. Moore	Dunmore	N. Y. S. & W.
Raub Coal Co.						
Louise	10	Gwillym Edwards	Luzerne	Gwillym Edwards	Luzerne	L. V.
Sandy Run Coal Co.						
Sandy Run	15	H. J. Kuth	Sandy Run			C. R. R. of N. J.
Scranton Anthracite Coal Co.						
Barnum	7	M. J. Rafferty	Scranton	J. F. O'Toole	Scranton	Erie
Pickaway	7	"	"	"	"	"
E. S. Stackhouse Coal Co.						
Pelton	14	E. S. Stackhouse	Shickshinny	W. R. Ritter	Shickshinny	D. L. & W.
Sullivan & Flynn Coal Co.						
Sullivan & Flynn	11			Richard Davis	Wilkes-Barre	L. V.

Suscon Coal Co.						
[illegible]	9	Pasquale Adonizio	Pittston	Pasquale Adonizio	Pittston	Erie
Susquehanna Collieries Co.						
[illegible]	14	D. V. Randall	Wilkes-Barre	William Weineck	Nanticoke	Pa.
[illegible]	14	"	"	"	"	"
No. 7	14	Nat Stevens	"	Nat Stevens	Wilkes-Barre	"
Washery						
Temple Coal Co.						
Harry E.	9	W. P. Jennings	Scranton	Phil Maue	Swoyersville	L. V.; D. L. & W.
Terry Coal Co.						
Black Creek Washery	13	Thomas W. Walsh	Exeter			Pa.
Traders Coal Co.						
Ridgewood †	10					
Troy Coal Co.						
Troy	9	M. J. Healey	Plains	M. J. Healey	Wyoming	L. V.
West End Coal Co.						
West End	14	F. G. Wilcox	Scranton	J. J. Bridel	Moosanaqua	Pa.
Wolf Collieries Co. Inc.						
Woodside Mines	15	Joseph G. Saneks	Freeland			L. V.
Yatesville Coal Co.						
Yatesville	9	Pasquale Adonizio	Pittston	Pasquale Adonizio	Pittston	Erie
† Not operating in 1928						
NORTHUMBERLAND COUNTY						
Colonial Colliery Co.						
Colonial	23	T. R. Jones	Frackville	George J. Jones	Natalie	Reading
Excelsior Coal Co.						
Corbin	24	S. W. Robertson	Excelsior	J. P. Reighard	Excelsior	Reading
Lehigh Valley Coal Co.						
Sayre	22	Thomas P. Thomas	Wilkes-Barre	N. L. Fetterman	Centralia	L. V.
Northumberland Mining Co.						
Enterprise	24	H. D. Kynor	Excelsior	H. D. Kynor	Excelsior	Reading
Phila. & Reading Coal & Iron Co.						
Alaska	23	F. C. Caldwell	Shamokin	John L. Davies	Mt. Carmel	Reading
Bear Valley	24	"	"	E. C. Jones	Shamokin	"
Burnside	24	"	"	W. R. Plummer	"	"
Henry Clay	24	"	"	J. E. Klase	"	"
Locust Spring	23	"	"	Albert R. Harris	Mt. Carmel	"
Big Mountain	24	"	"			"
North Franklin	24	"	"	W. S. Zartman	Shamokin	"
Reliance	23	"	"	W. A. Seitzinger	Mt. Carmel	"
Stirling	24	"	"			"
Shamokin Coal Co.						
Neilson	24			B. C. Osler	Shamokin	Reading
Shamokin Colliery Co.						
Washery	23	E. B. Hartman	Mt. Carmel	E. B. Hartman	Mt. Carmel	Pa.
South Penn Collieries Co.						
Katherine	24	R. H. Buchanan	Scranton	George H. Jones	Shamokin	Reading
Stevens Chapin Coal Co.						
Washery	23	Nat. D. Stevens	Wilkes-Barre	E. B. Hartman	Mt. Carmel	Pa.

Table 1—Operators, Location of Collieries, Railroads, 1928—Continued

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
NORTHUMBERLAND COUNTY—Cont'd.						
Susquehanna Collieries Co.						
Cameron	24	D. V. Randall	Wilkes-Barre	W. B. Geise	Shamokin	Reading
Luke Fidler	24	"	"	"	"	"
Pennsylvania	23	"	"	"	"	Pa.
Richards	23	"	"	"	"	"
Scott	23	"	"	"	"	"
SCHUYLKILL COUNTY						
Black Heath Coal Co.						
Black Heath	19	James G. Scott	Minersville	James G. Scott	Minersville	Truck
Buck Run Coal Co.						
Buck Run	19	James B. Neale	Buck Run	B. H. Hay	Buck Run	Reading
Chestnut Hill Coal Co.						
Chestnut Hill	18	James Grace	Pottsville	James Grace	Pottsville	Reading
Coxe Brothers & Co., Inc.						
Oncida	16	Thomas P. Thomas	Wilkes-Barre	George R. Wood	Hazleton	L. V.
East Bear Ridge Colliery Co.						
East Bear Ridge	22	W. P. Jennings	Scranton	I. D. Thomas	Mahanoy Plane	Reading
Frackville Coal Co.						
Lucanna	18	Daniel T. Slattery	Cumbola	Daniel T. Slattery	Cumbola	Reading
Gorman & Campion						
Bell	18	Daniel T. Slattery	Tuscarora	Daniel T. Slattery	Tuscarora	Reading
Haddock Mining Co.						
Candlemas	16	John Welsh	Wilkes-Barre	F. H. Alderson	Hazleton	Reading
Salem Hill	18	"	"	W. L. Cross	Pottsville	"
Harleigh-Brookwood Coal Co.						
Lawrence	22	E. H. Suender	Frackville	E. D. Straub	Frackville	Reading
Thomas	21	"	"	George H. Lovell	Shenandoah	Reading; L. V.
Hazle Brook Coal Co.						
Girard	22	E. P. Humphrey	Jeddo	Peter Shovlin	Girardville	Reading
Maryd	18	"	"	Ralph Unger	Maryd	Reading; C. R. R. of N. J.
Raven Run	21	"	"	Walter Williams	Raven Run	Reading; L. V.
Westwood	25	"	"	S. B. Creveling	Tremont	Reading
Laurel Coal Mining Co.						
Bickle	22	J. J. Walsh	Mowery	B. L. Keller	Mowery	Reading
Lehigh Coal & Navigation Co.						
Alliance	18	J. B. Warriner	Lansford	D. K. Glover	Kaska	Reading
Coaldale	17	"	"	E. G. Evans	Lansford	L. & N. E.

Greenwood	17	"	"	J. L. Richards	Summit Hill	"
Rahn	17	"	"	T. J. Evans	Coaldale	"
Tamaqua	18	"	"	C. D. Rubert	Lansford	"
Lehigh Valley Coal Co.						
Buc Mountain	18	Thomas P. Thomas	Wilkes-Barre	John W. Price	Mahanoy City	L. V.
Park	20	"	"	"	"	"
Packer No. 2	21	"	"	E. O. Holderman	Lost Creek	"
Packer No. 3	21	"	"	"	"	"
Packer No. 4	21	"	"	"	"	"
Packer No. 5	21	"	"	Hayden Owens	"	"
Springdale Washery	20	"	"	John W. Price	Mahanoy City	"
Lehigh & Wilkes-Barre Coal Co.						
Audenried No. 4	16	Edward Griffith	Wilkes-Barre	Walter Fahringer	Audenried	C. R. R. of N. J.
Honey Brook	16	"	"	"	"	"
Locust Mountain Coal Co.						
Weston	21	B. H. Stockett	Shenandoah	R. J. Teel	Shenandoah	L. V.
Lytic Coal Co.						
Lytle	19	D. V. Randall	Wilkes-Barre	W. W. Williams	Minersville	Pa.; Reading
Mill Creek Coal Co.						
Morea	18	E. H. Suender	Frackville	M. B. Holder	Morea	Pa.; L. V.
Phila. & Reading Coal & Iron Co.						
Bancroft	22	J. R. Sharp	Pottsville	Fred. Cadwell	Shamokin	Reading
Bast	22	"	"	F. W. Landnefeld	Ashland	"
Brookside	25	"	"	Joseph Maguire	Tremont	"
Eagle Hill	18	"	"	H. F. Schrawder	Pottsville	"
Eliangowan	20	G. B. Hadesty	"	Louis Riley	Mahanoy City	"
Gilberton	22	J. R. Sharp	"	William E. Jones	Gilberton	"
Good Spring	25	"	"	W. A. Williams	Good Spring	"
Hammond	21	G. B. Hadesty	"	P. J. Quigley	Shenandoah	"
Lincoln	25	J. R. Sharp	"	Daniel Holahan	Pine Grove	"
Mahanoy City	20	G. B. Hadesty	"	T. B. VanBuren	Mahanoy City	"
Maple Hill	20	"	"	John Schuster	"	"
North Mahanoy	20	"	"	George Mayer	"	"
Otto	19	J. R. Sharp	"	C. E. McGhee	Branchdale	"
Phoenix Park[1]	19					
Pine Knot[2]	19	J. R. Sharp	Pottsville	D. L. Freiler	Pottsville	Reading
Reevesdale	18	"	"			"
Shenandoah City	21	G. B. Hadesty	"	Joseph B. Garner	Shenandoah	"
Silver Creek	18	J. R. Sharp	"	A. J. Hauptly	Silver Creek	"
Tunnel Ridge	20	G. B. Hadesty	"	John Perry	Mahanoy City	"
Wadesville	18	J. R. Sharp	"	Thomas P. Davis	Pottsville	"
West Shenandoah	21	G. B. Hadesty	"	Peter McGonigle	Shenandoah	"
Middle Creek Washery	25	J. R. Sharp	"	M. J. Doyle	Tremont	"
Pine Forest Washery	18	"	"			"

[1] Not operating; partly dismantled.
[2] Glendower and Thomaston are sections of Pine Knot Colliery.

Table 1—Operators, Location of Collieries, Railroads, 1928—Concluded

Operators and Collieries	District	General Superintendent	Post Office	Superintendent	Post Office	Railroad to Mine
SCHUYLKILL COUNTY—Cont'd.						
Pine Hill Coal Co.						
Oak Hill	19	B Stockett	Minersville	W. B. Wells	Minersville	Reading
Pine Hill	19	"	"	I. T. Lewis	"	Pa.
Repplier Coal Co.						
New Castle	19	James B. Neale	Buck Run	D. J. Boyle	Pottsville	Pa.; Reading
Saint Clair Coal Co.						
Saint Clair	18	H. M. Smyth	Pottsville	H. M. Smyth	Pottsville	Reading
Sherman Coal Corp.						
Sherman	19	E. O. Marty	Pottsville	G. N. Gray	Pottsville	Truck to Reading
South Penn Collieries Co.						
Randolph	18	R. H. Buchanan	Scranton	George H. Jones	Port Carbon	Reading
Susquehanna Collieries Co.						
Wm. Penn	21	D. V. Randall	Wilkes-Barre	M. O. Edwards	Shaft	Pa.
SULLIVAN COUNTY						
Connell Anthraeite Mining Co.						
Connell	10	A. Widdowfield	Scranton	T. V. McLaughlin	Mildred	L. V.
Northern Anthracite Coal Co.						
Murray	10	M. J. Murray	Scranton	R. G. May	Lopez	L. V.
SUSQUEHANNA COUNTY						
Clifford Coal Co.						
Stillwater[1]	1					
Hillside Coal & Iron Co.						
Forest City	1	G. M. Gillette	Scranton	Peter Parry	Forest City	Erie
Hudson Coal Co.						
Clinton	1	Cadwallader Evans, Jr.	Scranton	F. L. Zollinger	Vandling	D. & H.; Erie
WAYNE COUNTY						
Hillside Coal & Iron Co.						
Forest City	1	G. M. Gillette	Scranton	Peter Parry	Forest City	Erie
Hudson Coal Co.						
Clinton	1	Cadwallader Evans, Jr.	Scranton	F. L. Zollinger	Vandling	D. & H.; Erie
Vandling Coal Co.						
Northeast	1	E. C. Widden	Vandling	E. C. Widden	Vandling	N. Y. O. & W.

[1]Not reported.

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
CARBON COUNTY												
Coleraine Colliery Co.												
Coleraine Washery	16	19,267	3,250	----------	22,517	163	70	----------	----------	----------	6,000	150
Coxe Brothers & Co., Inc.,												
Beaver Meadow	16	177,921	22,836	5,386	206,143	196	604	1	3	----------	177,250	----------
Evans Colliery Co.												
Evans	16	61,668	600	8,456	70,724	202	207	----------	1	----------	8,500	61,875
Lehigh Coal & Navigation Co.												
Nesquehoning	17	773,092	12,870	10,620	796,582	236	1,439	2	16	6,000	407,055	109,977
Lansford	17	756,927	30,940	3,538	791,405	237	1,589	7	29	----------	766,523	57,775
Coaldale	17	370,392	21,617	15,075	407,084	230	578	----------	3	----------	190,970	60,395
Total		1,900,411	65,427	29,233	1,995,071	----------	3,606	9	48	6,000	1,364,548	228,147
Lehigh Valley Coal Co.												
Spring Brook[1]	16	92,357	600	----------	92,957	211	177	----------	5	----------	24,020	----------
Grand total		2,251,624	92,713	43,075	2,387,412	227	4,664	10	57	6,000	1,580,318	290,172
[1] Coal prepared at Audenried No. 4 Colliery, 16th district.												
COLUMBIA COUNTY												
Clift Coal Co.												
Scotch Valley	16	23,285	3,279	457	27,021	234	123	----------	----------	----------	8,900	10,375
Hazle Brook Coal Co.												
Midvalley	22	87,129	892	632	88,653	234	106	----------	3	----------	71,725	41,700
Lehigh Valley Coal Co.												
Centralia	22	275,941	50,229	7,461	333,631[1]	202	767	----------	17	----------	276,760	----------
Continental Washery	22	95,236	1,214	----------	99,450	258	32	----------	----------	----------	----------	----------
Total		371,177	54,443	7,461	433,081	----------	799	----------	17	----------	276,760	----------

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
COLUMBIA COUNTY—Cont'd.												
Phila. & Reading Coal & Iron Co.												
Potts	22	244,883	36,316	11,409	292,608	231	709	4	6	----------	81,059	70,210
Repplier Coal Co.												
Locust Run Washery	22	7,655	----------	----------	7,655	33	44	----------	----------	----------	----------	----------
Scotch Run Coal Co.												
Scotch Run	16	7,795	2,100	220	10,115	79	105	----------	----------	----------	200	1,050
Grand total	--------	741,924	97,030	20,179	859,133	207	1,886	4	26	----------	438,644	123,335
[1] 25,638 tons produced at stripping.												
DAUPHIN COUNTY												
Susquehanna Collieries Co.												
Williamstown	25	403,444	48,815	7,176	459,435	246	1,226	4	14	----------	132,970	271,175
Short Mountain	25	322,067	63,740	15,884	401,691	229	928	1	14	----------	119,205	133,786
	--------	725,511	112,555	23,060	861,126	----------	2,154	5	28	----------	252,175	404,961
Short Mountain Washery	25	108,426	5,927	----------	114,353	397	23	1	----------	----------	----------	----------
Grand total	--------	833,937	118,482	23,060	975,479	240	2,177	6	28	----------	252,175	404,961
LACKAWANNA COUNTY												
Archbald Coal Co.												
Tappans[6]	2	118,858	1,875	1,014	121,747[4]	249	236[4]	----------	----------	----------	2,950	72,467
Barron Coal Co.												
Barron	5	5,382	----------	----------	5,382[5]	68	28	----------	----------	----------	1,500	----------
Dunmore Anthracite Coal Co.												
Dunmore	6	7,418	450	194	8,062	114	78	----------	----------	200	2,500	----------

Fireside Coal Co.												
Fireside[1]	1	975	50		1,025	17	43					300
M. A. Franklin Coal Co.												
Franklin Washery	3	5,318	50	50	5,418	99	19					
John Gibbons Coal Co.												
Gibbons	5	42,500	700	1,500	44,700	204	82			800	1,500	
Glen Alden Coal Co.												
Archbald	5	368,105	15,364		383,467	248	1,028	3	21	123,750	149,500	
Baker	5	475,802	33,745		509,547	247	1,144	3	18	212,425	261,725	
Diamond	3	487,840	41,479		529,319	247	1,427	6	19	133,250	786,000	1,200
Hampton Plants	5						70					
Hyde Park	5	353,640	107	49,285	403,032	251	1,209	9	13	176,750	191,300	
Pyne	4	400,891	22,745	2,682	426,318	247	1,005	5	13	339,600	65,000	
Taylor	4	458,722	12,742	21,865	493,329	248	1,171	5	20	227,500	167,875	
Storrs	6	949,629	66,162	22,889	1,038,680	249	2,413	9	27	1,161,375	560,285	
Total		3,494,627	192,344	96,721	3,783,692		9,467	40	131	2,374,650	2,181,685	1,200
Glendale Anthracite Collieries												
Glendale	1	156,501	291	1,379	158,171	275	445	1	6	4,300	26,848	150,480
Green Ridge Coal Co.												
Green Ridge	4	48,687	28	9,417	58,132	305	112	1	1	9,875	2,700	52,200
Hillside Coal & Iron Co.												
Forest City	1	137,318	15,983	5,344	158,645	229	213	4	7	63,362	37,732	106,462
Hudson Coal Co.												
Clinton	1	165,246	9,512	2,778	177,536	235	408	2	4	178,578	32,758	44,484
Coal Brook	2	665,167	37,273	6,465	708,905	225	1,609	4	14	272,759	84,949	132,512
Eddy Creek	3	819,776	48,058		867,834	239	1,608	9	11	893,100	17,875	200,331
Gravity Slope	2	457,086	11,558	7,846	476,490	179	1,223	4	12	117,550	20,530	87,295
Greenwood	5	77,882	8,027	3,185	89,094	93	521		2	27,975	7,805	49,478
Jermyn	2	498,125	11,152		509,277	214	966	6	10	215,475	14,382	195,790
Marvine	3	709,025	50,125	29,059	788,209	224	1,939	3	30	729,016	44,562	224,468
Olyphant	6	767,600	96,913	25,308	889,821[12]	218	1,849	2	23	378,700	9,025	312,814
Powderly	2	394,713	22,685	10,960	428,358	180	1,243	1	9	101,700	3,885	89,040
		4,554,620	295,303	85,601	4,935,524		11,366	31	115	2,914,853	235,771	1,336,212
Coal Brook Washery	2	323	42,120		42,443							
Gravity Slope Washery	2	100,210	6,916		107,126							
Total		4,655,153	344,339	85,601	5,085,093		11,366	31	115	2,914,853	235,771	1,336,212
Humbert Coal Co.												
Sunnyside	1	71,981	300	681	72,962	225	210	2	3	12,900	8,000	77,500
Jermyn & Co.												
Jermyn	4	16,929	1,800	1,532	20,261	18	694			15,625	12,000	14,000
Lackawanna Coal Co., Ltd.												
Lackawanna	6	198,045	25,440	13,956	237,443	208	499	5	6	30,775	192,500	

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LACKAWANNA COUNTY—Cont'd.												
Lackawanna Valley Fuel Co.												
Gray Stripping	2	5,017			5,017[9]	267	27			500	175	100
Old Buffalo Mine	1	4,482			4,482[2]	301	34			1,250	200	1,250
		9,499			9,499		61			1,750	375	1,350
Glenwood Washery	2	2,950		2,708	5,658	90	8					
Throop Washery	6	18,118	300		18,418	137	19					
Total		30,567	300	2,708	33,575		88			1,750	375	1,350
Lehigh Valley Coal Co.												
Broadwell	7	48,096			48,096[14]	207	101		1	10,725	34,225	12,950
Lincoln Coal Co.												
Oak Run	2	23,006	50	2,947	26,003	269	66	2	1	32,725		22,500
Meadowside Coal Co.												
Meadowside	6	14,481	500	11,299	26,280	223	125		1	11,975	525	11,825
Mid-City Coal Co.												
Bulls Head	3	55,202	1,000	24,097	80,299	225	189	1		5,575	5,600	71,000
Moffat Coal Co.												
Moffat	5	53,203	420		53,623	208	136	1	3	12,500	6,125	27,475
Murrin Coal Co.												
Fallbrook	1	40,839	361	4,089	45,289	250	96	2	1		3,225	3,000
Pennsylvania Coal Co.												
Erie	2	183,878	7,557		191,435[5]	253	502		3	16,300	10,975	130,605
No. 5	4	210,026	12,786	18,288	241,100	249	582	3	3	223,100	42,900	33,425
No. 1	6	820,107	34,071	400	854,578	253	1,518	3	19	919,575	22,760	97,026
Old Forge	4	363,362	52,664	5,957	421,983	210	1,128	2	1	96,375	12,799	120,888
Underwood	6	665,693	30,041	10,690	706,424	253	1,387	1	12	457,000	190,895	190,195
Total		2,243,066	137,119	35,335	2,415,520		5,117	9	38	1,712,350	280,329	572,139

Price-Pancoast Coal Co.												
Pancoast	4	101,011	13,761	3,146	117,918	99	529	----------	7	70,450	6,125	11,800
Public Service Coal Co.												
Marshwood	6	50,767	79	469	51,315	199	177	----------	6	4,027	4,633	34,640
Racket Brook Coal Co.												
Racket Brook	1	186,107	4,421	8,199	198,727	261	392	----------	8	190,650	22,700	178,400
Ransom Coal Co.												
Ransom	4	6,906	----------	----------	6,906	122	33	----------	----------	2,500	100	1,000
Raub Coal Co.												
Austin Tunnel	7	44,223	----------	----------	44,223[11]	279	142	----------	1	500	9,600	36,000
Richmondale Coal Co.												
Richmondale	1	66,830	1,000	300	68,130	258	166	1	----------	7,500	8,500	12,400
Roaring Brook Coal Co.												
Roaring Brook	4	1,966	5	----------	1,971	30	42	----------	----------	750	500	----------
Scranton Anthracite Coal Co.												
Oak Hill	5	50,788	800	----------	51,588	199	145	----------	1	49,993	8,270	47,584
Scranton Coal Co.												
Capouse	4	103,223	3,890	----------	107,113[10]	152	489	----------	4	126,500	27,000	109,000
Johnson	6	81,387	3,882	18,337	103,606	158	549	3	14	78,450	18,450	58,850
Mt. Pleasant	4	56,385	4,883	----------	61,268[11]	253	305	1	2	40,000	----------	8,425
Ontario	6	162,682	9,600	5,590	177,872	167	643	4	6	34,625	7,875	11,955
Pine Brook	4	507,436	13,396	36,816	557,648	271	1,227	3	7	353,375	64,000	67,000
Raymond	2	99,026	5,071	----------	104,097[7]	171	464	2	4	19,550	21,250	138,250
Richmond No. 3	6	19,678	2,409	----------	22,087	173	152	----------	1	16,750	8,000	19,000
Riverside	2	139,753	9,485	2,980	152,218	169	526	---- -----	9	208,750	12,575	38,350
West Ridge	3	8,068	----------	----------	8,068[10]	227	30	----------	----------	----------	25	2,000
Total	-------	1,177,638	52,616	63,723	1,293,977	----------	4,385	13	47	878,000	159,175	452,830
E. E. Shumaker	6	175	----------	----------	175[13]	----------	----------	1	----------	----------	----------	----------
South Penn Collieries Co.												
Legitts Creek	3	287,988	24,252	39,684	351,924	275	723	4	5	59,125	15,282	308,638
Von Storch	3	211,809	17,837	29,187	258,833	276	688	5	12	675	11,365	212,425
Total	-------	499,797	42,089	68,871	610,757	----------	1,411	9	17	59,800	26,647	521,063
Spencer Coal Co.												
Spencer	6	48,172	----------	30,564	78,736	255	222	1	2	6,375	27,125	5,400
Suffolk Anthracite Collieries												
Carbondale	1	41,372	160	471	42,003[3]	303	97	1	----------	500	1,400	36,500
Sunrise Coal Co.												
Sunrise	2	1,060	900	----------	1,960[8]	223	12	----------	----------	----------	150	----------
Temple Coal Co.												
Northwest	1	164,892	15,063	2,477	182,432	243	393	----------	4	2,525	417,100	----------
Sterrick Creek	2	237,779	28,195	18,536	284,510	212	720	1	6	204,925	287,075	----------
Total	-------	402,671	43,258	21,013	466,942	----------	1,113	1	10	207,450	704,175	----------

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives: Pounds of black powder used	Explosives: Pounds of dynamite used	Explosives: Pounds of permissible explosives used
LACKAWANNA COUNTY—Cont'd												
West Jermyn Coal Co.												
West Mountain Mine	2	5,683		133	5,816[3]	261	33	1	1	1,000	400	10,000
Grand total		14,153,318	882,489	494,755	15,530,562	223	38,309	127	414	8,694,435	4,015,590	3,880,677

[1] Coal prepared at Gibbons breaker, 5th District.
[2] Coal prepared at Throop Washery, 6th District.
[3] Coal prepared at Avoca breaker, 7th District.
[4] Including 24,213 tons produced and 32 employes at stripping operation.
[5] Coal reared at Underwood breaker, 6th District.
[6] Coal reared at Avoca breaker, 7th Distr ct.
[7] Coal prepared at Ontario breaker, 6th District.
[8] Coal prepared at Kingston No. 4 breaker, 9th District.
[9] Coal prepared at Lackawanna Washery, 4th District.
[10] Coal prepared at Johnson breaker, 6th District.
[11] Coal prepared at Pine Brook breaker, 4th District.
[12] 64,485 tons produced at stripping.
[13] Estimated tonnage; operation abandoned.
[14] Coal prepared at Seneca breaker, 7th District.
[15] Coal prepared at Louise breaker, 10th District.

LUZERNE COUNTY												
Alden Coal Co.												
Alden	14	261,550	7,317	7,329	276,196	273	770	2	20	9,650	12,649	192,244
Alden Washery	14	46,331	1,570	229	48,130	140	12					
Total		507,881	8,887	7,558	324,326		782	2	20	9,650	12,649	192,244
Barry Coal Co.												
Stripping	12	10,141			10,141[2]	295	33	1				1,000
Buck Mountain Coal Mining Co.												
Gowen	15	112,167	1,101	2,154	115,422	278	222	4	8		112,100	8,385
Central Coal Co.												
Wyoming	10	31,773	750	288	32,811	198	70		2	17,350		4,800
Clifford Coal Co.												
Clifford	7	21,094	400	92	21,586[9]	250	157[9]		1		6,000	

John Conlon Coal Co.												
Conlon	10	35,681	150	13,962	49,793	220	164			8,750	4,250	12,500
Madeira	10	83,806	752	7,288	91,846	201	334	1	5	53,707	7,565	54,370
Total		119,487	902	21,250	141,639		498	1	5	62,457	11,815	66,870
Coxe Brothers & Co., Inc.												
Deringer-Tomhicken	15	275,844	2,789	6,619	285,252	199	782	2	2		370,600	
Drifton	15	215,982	68,426	12,351	296,759	212	700	1	8		189,363	
Eckley-Buck Mountain	15	227,647	14,351	5,371	247,369	209	408		3		65,025	
Total		719,473	85,566	24,341	829,380		1,890	3	13		624,988	
R. M. Cranston												
Cranston	8	11,486	150		11,636	249	25					12,000
Charles M. Dodson Co.												
Beaver Brook	16	181,961	4,415	2,177	188,553	284	402	3	13		3,650	70,775
East Alden Mining Co.												
East Alden	14	16,006			16,006	225	49				950	8,575
East Boston Coal Co.												
East Boston	10	168,231	45,625	21,503	235,359	297	497	6	7	42,450	12,000	66,000
Glen Alden Coal Co.												
Auchincloss	14	317,358	9,558		326,916[1]	257	577	4	9		1,000	210,000
Avondale	13	254,567	15,646	5,911	276,124	254	596	1	10		8,500	102,000
Bliss	14	624,930	40,555	8,044	673,529	252	1,148	6	12	17,500	52,000	349,000
Hallstead	7	168,791	11,080	6,875	186,746	242	492	1	7	17,500	6,525	88,700
Loomis	13	993,375	32,856	11,172	1,037,403	257	1,777	6	29		61,000	656,000
Loomis Power Plant	13						72					
Pettebone	10	462,401	37,842	14,960	515,203	253	1,193	6	21	38,750	47,000	438,000
Truesdale	13	1,350,507	56,593	9,048	1,416,148	256	2,673	7	27		114,000	1,060,000
Woodward	12	760,243	32,000	15,508	807,751	173	1,630	8	21	60,250	3,990	445,725
Total		4,932,172	236,130	71,518	5,239,820		10,158	39	136	134,000	294,015	3,349,425
Grand Tunnel Coal Co.												
West Nanticoke	13	141,826	961	1,479	144,266	285	317	3	4		7,825	28,050
Haddock Mining Co.												
Black Diamond	10	211,309	10,950	10,192	232,451	302	434	2	3	3,850	11,000	127,000
Harris-Denly Coal Co.												
Kintz	9	19,991	1,825	9,003	30,819	285	47		3		1,500	19,000
Harwood Coal Co.												
Harwood	16	25,233	1,632	14,674	41,539	206	251				5,525	23,925
Hazle Brook Coal Co.												
Hazle Brook	15	131,069	14,943	536	146,548	249	120		2		74,000	
Upper Lehigh	15	158,635	14,880	4,814	178,329	278	291		1		38,130	
Total		289,704	29,823	5,350	324,877		411		3		112,130	

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LUZERNE COUNTY—Cont'd.												
Hillside Coal & Iron Co.												
Butler	7	491,260	29,444	8,264	528,968	233	1,335	1	7	357,225	168,402	45,895
Hudson Coal Co.												
Baltimore No. 5	11	313,613	41,454	9,456	364,523	139	1,438	2	23	140,200	12,206	152,949
Baltimore No. 2 Bank	11	----------	11,637	----------	11,637	----------	----------	----------	----------	----------	----------	----------
Laflin	7	32,288	10,664	836	43,788	48	299	----------	1	39,250	5,043	----------
Loree No. 5—Boston	12	741,929	92,836	15,453	850,218[3]	199	2,632	6	16	565,976	79,886	74,664
Loree Bank	12	197	15	----------	212	[4]	[4]	----------	----------	----------	----------	----------
Pine Ridge	10	501,085	53,905	10,073	565,063	161	2,020	6	32	449,475	109,372	206,149
Total	----------	1,589,112	210,511	35,818	1,835,441	----------	6,389	14	72	1,194,901	206,507	433,762
Jeddo-Highland Coal Co.												
Highland No. 2	15	----------	15,368	----------	15,368[5]	269	225	1	4	----------	57,185	----------
Highland No. 5	15	343,480	27,746	16,013	387,239	245	716	1	8	----------	299,075	30,125
Jeddo No. 4	15	401,473	38,455	13,454	453,382	265	1,130	4	16	----------	420,243	22,275
Jeddo No. 7	15	179,119	11,923	28,228	219,270	247	320	----------	3	----------	57,500	----------
Total	----------	924,072	93,492	57,695	1,075,259	----------	2,391	6	31	----------	834,003	52,400
John Ames Coal Co.												
Franklin Washery	11	37,000	140	1,525	38,665	262	30	----------	----------	----------	----------	----------
Kingston Coal Co.												
Gaylord	12	143,264	9,800	11,929	164,993	271	299	----------	2	8,375	10,750	4,982
Kingston No. 2	12	301,827	15,000	37,755	354,582	270	824	5	9	120,425	6,340	19,125
Kingston No. 4	9	242,988	31,000	791	274,779	272	752	----------	4	70,575	13,662	42,049
Total	----------	688,079	55,800	50,475	794,354	----------	1,875	5	15	199,375	30,752	66,156

George F. Lee Coal Co.												
Chauncey	13	86,561	411	16,307	103,279	260	297	1	4		10,325	34,875
Lehigh & Wilkes-Barre Coal Co.												
Buttonwood No. 22	13	448,055	38,809	6,563	493,427	255	1,058	5	15		4,800	286,400
Hollenback No. 2	11	265,067	26,715	76,897	368,679	258	843	3	8	39,125	16,475	249,000
Lance No. 11	12	514,556	29,671	58,260	602,487	258	1,176	7	10	297,175	14,012	215,500
Lance Culm Bank	12	6,202			6,202							
Maxwell No. 20	13	615,670	40,339	19,314	675,323	252	1,586	3	19	200	17,305	474,225
Nottingham No. 15	12	374,964	36,406	19,278	430,648	249	998	4	9	98,025	15,256	117,271
S. Wilkes-Barre No. 5	11	345,165	35,706	114,270	495,141	256	1,066	2	13		22 450	319,250
Stanton No. 7	11	747,074	52,976	57,357	857,407	257	1,836	3	15	30,825	12,625	628,400
Sugar Notch No. 9	13	358,332	28,889	4,778	391,999	245	1,064	2	9	425	26,705	281,625
Wanamie No. 18	14	731,961	31,937	7,152	771,050	255	1,432	4	15	3,350	102,115	376,735
Total		4,407,046	321,448	363,869	5,092,363		11,059	33	113	469,125	231,743	2,948,406
Lehigh Coal & Navigation Co.												
Cranberry	16	298,167	33,479	164,912	496,558	219	1,198	1	9		39,675	203,093
Cranberry Stripping	16	53,788			53,788	219	33			4,000	70,500	
Total		351,955	33,479	164,912	550,346		1,231	1	9	4,000	110,175	203,093
Lehigh Valley Coal Co.												
Dorrance	11	333,123	47,567	61,979	442,669	213	970	1	6	63,025	329,825	
Exeter	9	240,013	97,006	25,410	362,429	208	824	4	6	5,725	258,600	
Franklin	11	211,410	35,615	5,753	252,778	207	622	4	6	2,850	17,175	104,465
Hazleton No. 1	15	173,562	14,915	45,420	233,897	195	598	1	16		115,400	
Hazleton Shaft-Stockton	15	302,870	50,046	4,656	357,072	206	807	1	9		182,946	
Heidelberg No. 1	7	70,908	8,330	1,703	80,941	151	236		4	1,400	50,475	
Maltby	9	177,455	45,029	10,507	232,991	201	594	1	6	10,350	154,825	
Mineral Spring	10	143,763	26,526	7,710	177,999	204	535	4	7	875	137,050	
Prospect	9	202,466	75,062	2,000	280,428	192	789	1	14	73,125	135,650	18,625
Prospect (Henry)	10	231,127	52,787	13,301	297,215	185	764	4	14	103,225	230,325	2,075
Seneca	7	236,470	43,538	16,606	296,614[10]	206	509	2	3	22,350	144,775	
William A	7					199	328		4	1,550	93,925	
Spring Mountain	16	165,515	48,886	4,309	218,710	211	488		1		59,700	
Warrior Run	13	71,826	9,376	3,387	84,589[13]	211	175		1		70,250	
Westmoreland	9	128,572	15,240	4,554	148,366	202	370		5	1,250	139,250	
Total		2,688,580	570,823	207,295	3,466,698		8,609	23	102	285,725	2,120,171	125,165
Lehigh & Wyoming Valley Coal Co.												
Florence	7	60,434	200	8,225	68,859	288	147	1		6,875	18,000	
Lynott & Brown												
Stripping	8		10	3,905	3,915	225	18			3,900		200
Miners Mills Coal Mining Co.												
Miners Mills	10	69,897			69,897[2]	290	129		1	75	3,420	24,275

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LUZERNE COUNTY—Cont'd.												
Mount Lookout Coal Co.												
Mount Lookout	9	165,461	19,686	13,509	198,656	285	475	2	3	15,775	192,025	----------
Nanticoke Valley Coal Co.												
Washery	14	43,586	----------	----------	43,586	245	56	----------	----------	----------	----------	----------
Pardee Brothers & Co. Inc.												
Lattimer	15	389,011	65,566	11,931	466,508	288	1,019	----------	7	----------	372,675	166,075
Pennsylvania Coal Co.												
Central	7	255,968	11,493	7,699	275,160[11]	228	628	1	2	144,975	30,945	50,036
Ewen	8	590,076	55,949	127	646,152	239	1,764	3	20	365,750	59,200	217,201
No. 6	8	502,369	46,078	14,773	563,220	229	1,739	6	15	425,050	88,845	162,490
No. 9	5	554,169	48,166	15,967	618,302	236	1,758	----------	12	196,025	72,175	259,325
No. 14	8	556,422	50,077	8,621	615,120	234	1,653	6	13	414,575	56,968	199,846
Total	----------	2,459,004	211,763	47,187	2,717,954	----------	7,542	16	62	1,546,375	308,133	888,898
Perry Coal Co.												
Black Creek Washery	13	5,500	----------	----------	5,500	90	4	----------	----------	----------	----------	----------
Pittston Coal Mining Co.												
Hadleigh	13	79,385	15,000	974	95,359	289	194	----------	----------	----------	40,000	9,000
T. F. Quinn Coal Co.												
Consolidated	7	14,591	1,530	175	16,296	102	178	2	1	----------	----------	11,900
Raub Coal Co.												
Louis	10	42,183	600	30,563	73,346	223	238	----------	4	500	12,000	14,000
Sandy Run Coal Co.												
Sandy Run	15	108,229	1,013	1,192	110,434	266	240	----------	----------	----------	40,135	----------
Scranton Anthracite Coal Co.												
Barnum	7	65,610	1,160	----------	66,770[12]	277	96	4	5	----------	1,385	409,348
Pickaway	7	----------	----------	----------	----------	54	15	----------	----------	----------	----------	4,648
Total	----------	65,610	1,160	----------	66,770	----------	111	4	5	----------	1,385	413,996

Stackhouse Coal Co.												
Salem	14	48,277	365	1,058	49,700	229	152	1	----------	2,425	8,220	19,405
Suffolk Anthracite Collieries Co.												
Avoca	7	242,800	6,570	5,532	254,902	296	296	1	3	----------	15,350	65,675
Sullivan & Flynn												
Sullivan & Flynn	11	6,939	100	1,521	8,560	295	26	----------	----------	----------	2,500	500
Suscon Coal Co.												
Suscon	9	21,805	----------	----------	21,805	214	64	----------	----------	7,500	2,500	----------
Susquehanna Collieries Co.												
No. 6	14	568,025	69,443	6,339	643,807	242	1,437	3	14	500	113,567	130,075
No. 7	14	739,724	63,607	27,869	831,200	255	2,261	11	35	126,275	168,857	564,225
	----------	1,307,749	133,050	34,208	1,475,007	----------	3,698	14	49	126,775	282,424	694,300
Washery	14	83,958	64,183	----------	148,141	266	50	----------	----------	----------	----------	----------
Total	----------	1,391,707	197,233	34,208	1,623,148	----------	3,748	14	49	126,775	282,424	694,300
Temple Coal Co.												
Harry E.	9	303,774	44,445	13,693	361,912	274	945	3	4	32,400	338,850	----------
Traders Coal Co.												
Ridgewood	10	61,997	----------	456	62,453[8]	188	310	----------	4	4,250	4,550	59,775
Troy Coal Co.												
Troy	9	12,854	250	2,848	15,952	283	45	----------	----------	----------	----------	7,600
West End Coal Co.												
West End	14	406,975	4,303	13,957	425,235	249	977	1	18	100	63,075	104,300
Wolf Collieries Co.												
Pond Creek	15	14,429	----------	----------	14,429[7]	151	56	----------	----------	----------	7,775	----------
Woodside	15	25,990	----------	----------	25,990[5]	209	66	----------	----------	----------	20,075	----------
Wolf No. 5	15	7,671	----------	----------	7,671[6]	209	14	----------	----------	----------	4,000	----------
Total	----------	48,090	----------	----------	48,090	----------	136	----------	----------	----------	31,850	----------
Yatesville Coal Co.												
Yatesville	9	52,022	----------	----------	52,022	269	106	1	1	15,000	18,000	----------
Grand total	----------	24,683,731	2,314,459	1,288,673	28,286,863	234	66,615	194	733	4,542,058	6,683,317	10,367,700

[1] Coal prepared at Loomis Colliery, 13th District.
[2] Coal prepared at East Boston Colliery, 10th District.
[3] Includes 31,520 tons from stripping operation.
[4] Included with Loree Colliery.
[5] Coal prepared at Highland No. 5 Colliery, 15th District.
[6] Coal prepared at Drifton Colliery, 15th District.
[7] Coal prepared at Upper Lehigh Colliery, 15th District.
[8] Coal prepared at Clifford Colliery, 7th District.
[9] Includes 5,453 tons and 15 employes from stripping operation.
[10] Includes 130,384 tons from William A. breaker abandoned September 1, 1927.
[11] 84,396 tons prepared at Old Forge breaker, 4th District.
[12] Includes 1,160 tons from Pickaway.
[13] Coal prepared at Mineral Spring Colliery, 10th District.

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
NORTHUMBERLAND COUNTY												
Colonial Colliery Co.												
Colonial	23	720,584	2,629	4,686	727,899[2]	290	1,176	4	11	----------	106,825	385,025
Excelsior Coal Co.												
Corbin	24	213,600	6,000	900	220,500	281	300	1	5	----------	1,500	31,400
Hickory Run Coal Co.												
Washery	23	19,305	10,480	----------	29,785	254	48	----------	----------	----------	----------	----------
Lehigh Valley Coal Co.												
Sayre	22	280,747	71,187	11,161	363,095 [1]	203	872	3	10	----------	272,677	----------
Northumberland Mining Co.												
Enterprise	24	332,841	10,760	3,974	347,575	292	680	4	13	----------	33,144	330,936
Enterprise No. 1 Washery	24	12,329	----------	----------	12,329	74	2	----------	----------	----------	----------	----------
Total	----------	345,170	10,760	3,974	359,904	----------	682	4	13	----------	33,144	330,936
Phila. & Reading Coal & Iron Co.												
Alaska	23	245,650	29,235	----------	274,885	229	574	2	14	----------	153,680	24,125
Bear Valley	24	271,423	37,872	9,777	319,072	193	850	1	14	----------	256,961	5,100
Big Mountain	24	----------	----------	----------	[6]	188	302	----------	11	----------	137,964	----------
Burnside	24	259,166	54,597	21,926	335,689	216	700	----------	12	600	171,246	38,425
Henry Clay	24	126,364	36,290	47,031	209,685	188	453	1	8	----------	9,713	41,137
Locust Spring	23	421,039	120,256	3,885	545,180 [3]	235	1,309	1	24	425	368,561	39,725
North Franklin	24	222,287	30,498	8,317	261,102	155	768	1	11	----------	164,645	----------
Reliance	23	156,601	28,815	27,855	213,271	228	681	1	5	----------	123,002	87,700
Stirling	24	----------	----------	----------	[5]	216	291	1	6	----------	[5]	[5]
Total	----------	1,702,530	337,563	118,791	2,158,884	----------	5,928	8	105	1,025	1,385,772	236,212

Shamokin Coal Co. Nellson	24	189,171	946	12,911	203,028	288	313	2	5	----------	48,550	104,600
Shamokin Colliery Co. Washery	23	216,772	13,000	----------	229,772	296	75	1	----------	----------	----------	----------
Shipman Coal Co. Glenbrook	24	67,078	4,033	1,025	72,136	112	465	3	5	----------	22,200	47,150
South Penn Collieries Co. Katherine	24	79,796	11,812	755	92,363	254	104	----------	----------	----------	2,299	25,304
Susquehanna Collieries Co.												
Cameron	24	255,533	19,065	17,619	292,217	210	787	1	6	----------	83,275	164,400
Luke Fidler	24	219,110	24,226	4,593	247,929	189	830	1	5	----------	59,117	141,070
Pennsylvania	23	261,632	9,499	7,369	278,500	185	992	4	18	----------	47,945	197,200
Richards	23	345,479	11,038	18	356,535 [4]	199	1,082	2	15	----------	76,860	284,000
Scott	23	352,705	58,785	9,614	421,104	259	986	6	15	----------	80,900	300,600
Total	--------	1,434,459	122,613	39,213	1,596,285	----------	4,677	14	59	----------	348,097	1,087,270
Grand total	--------	5,269,212	591,023	193,416	6,053,651	220	14,640	40	213	1,025	2,221,064	2,247,897

[1] Includes 19,603 tons from stripping.
[2] Includes 29,476 tons from stripping.
[3] Includes 24,000 tons from stripping.
[4] Includes 1,778 tons from stripping.
[5] Coal prepared at Burnside, explosives included with Burnside.
[6] Coal prepared at Henry Clay breaker.

SCHUYLKILL COUNTY

Black Heath Coal Co. Black Heath	19	11,746	320	331	12,397	286	27	----------	----------	----------	6,000	----------
Buck Run Coal Co. Buck Run	19	256,900	3,850	4,325	265,075 [5]	257	563	3	15	----------	56,596	92,793
Butcher Creek Coal Co. Laurel Run	19	4,659	88	330	5,077	88	27	----------	----------	----------	----------	250
Chestnut Hill Coal Co. Chestnut Hill	18	6,076	----------	37	6,113	165	19	----------	----------	----------	820	2,100
Coxe Brothers & Co., Inc. Oneida	16	190,198	19,828	3,534	213,560 [1]	210	518	----------	4	----------	138,445	----------
East Bear Ridge Colliery Co. East Bear Ridge	22	224,702	7,200	6,354	238,256	264	444	2	3	----------	119,000	----------
Frackville Coal Co. Lucanna	18	62,233	526	3,931	66,690	283	99	1	1	----------	10,250	26,200
Gorman & Campion Bell	18	55,791	125	4,702	60,618	230	134	5	2	----------	10,500	28,650
Haddock Mining Co.												
Candlemas	16	464,643	4,676	3,365	472,684	281	873	2	17	----------	333,225	7,250
Candlemas Stripping	16	52,060	----------	----------	52,060	281	62	----------	----------	33,250	98,950	----------
Total	--------	516,703	4,676	3,365	524,744	----------	935	2	17	33,250	432,175	7,250

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
SCHUYLKILL COUNTY—Cont'd.												
Harleigh-Brookwood Coal Co.												
Black Creek Washery No. 1	21	8,803	528	33	9,364	60	27					
Kehley Run	21	198,841	1,552	1,022	202,315	257	392	2	5		26,385	44,495
Lawrence	22	375,761	2,020		377,781	271	738		14		209,200	4,575
Total		583,405	4,100	1,055	589,460		1,157	2	19		235,585	49,070
Hazle Brook Coal Co.												
Girard	22	171,190	19,598		190,788	250	203		7		101,794	1,795
Maryd	18	202,748	46,090	6,348	255,186	252	349	1	2		64,125	43,875
Raven Run	21	221,182	5,352	903	227,437[1]	253	316	5	2	15,925	65,380	53,876
Westwood	25	117,891	1,940	334	120,165	287	238		4		60,812	46,300
Total		713,011	72,980	7,585	793,576		1,106	6	15	15,925	292,111	145,846
Laurel Coal Mining Co.												
Bickle	22	2,920	50		2,970	13	74				1,000	
Lehigh & Wilkes-Barre Coal Co.												
Audenried No. 4	16	153,544	44,547	8,356	206,447	248	898	1	8		176,496	
Honey Brook	16	170,524	22,106		192,630	248	233	1	5		94,368	
Stripping	16	83,168			83,168	248	129			3,375		
Total		407,236	66,653	8,356	482,245		1,260	2	13	3,375	270,864	
Lehigh Coal & Navigation Co.												
Alliance	18	350,992	8,113	2,335	361,440	227	743	3	9		76,475	85,525
Coaldale	17	342,713	24,295	16,940	383,948	230	888	3	15		260,209	42,005
Greenwood	17	419,393	7,492		426,885	229	785	1	13		295,475	52,500
Rahn	17	440,879	9,138		450,017	232	770	1	17		269,953	35,950

Tamaqua No. 14	18	364,606	28,876	----------	393,482	226	823	5	12	----------	294,765	36,910
Total	----------	1,918,583	77,914	19,275	2,015,772	----------	4,009	13	66	----------	1,196,877	252,890
Lehigh Valley Coal Co.												
Buck Mountain	18	242,177	65,377	2,990	310,544	210	784	----------	16	----------	41,249	177,350
Packer No. 2	21	154,203	----------	----------	154,203[11]	208	340	4	7	----------	96,932	----------
Packer No. 3	21	98,189	----------	----------	98,189[11]	208	184	1	3	----------	27,433	----------
Packer No. 4	21	122,319	57,074	5,393	184,786[18]	208	404	----------	7	----------	58,524	----------
Packer No. 5	21	205,278	46,717	3,693	255,688[19]	204	610	----------	10	----------	172,890	----------
Park	20	329,203	64,620	6,259	400,082	211	851	3	18	----------	97,055	94,775
Springdale Washery	20	170,154	4,195	----------	174,349	269	52	1	----------	----------	25	----------
Total	----------	1,321,523	237,983	18,335	1,577,841	----------	3,225	9	61	----------	494,108	272,125
Locust Mountain Coal Co.												
Weston	21	454,611	7,135	6,583	468,329[20]	294	864	1	19	8,375	270,030	----------
Lytle Coal Co.												
Lytle	19	230,021	68,192	5,809	304,022	210	725	1	17	----------	54,218	110,163
Mill Creek Coal Co.												
Morea	18	290,290	3,171	3,053	296,514 [2]	262	896	2	9	----------	61,200	105,000
Phila. & Reading Coal & Iron Co.												
Bancroft	22	182,650	18,501	----------	201,151[14]	291	255	----------	9	3,050	76,403	7,620
Bast	22	215,099	41,624	17,323	274,046[15]	206	657	----------	10	----------	122,775	10,650
Boston Run	20	43,217	21,320	----------	64,537[10]	179	260	----------	4	----------	47,535	600
Brookside	25	220,991	54,770	7,834	283,595	244	808	3	8	----------	68,165	----------
Eagle Hill	18	219,229	37,162	8,511	264,902	184	846	1	15	----------	83,300	89,675
Ellangowan	20	180,065	26,936	----------	207,001	193	594	1	13	----------	81,710	2,650
Gilberton	22	174,979	45,557	14,068	234,604[16]	193	948	2	10	----------	169,839	2,500
Glendower	19	87,050	16,729	----------	103,779	179	294	----------	5	----------	85,843	4,685
Good Spring	25	107,008	97,869	8,998	213,875	188	606	1	7	----------	95,440	13,150
Hammond	21	177,954	45,560	5,776	229,290	190	642	5	13	----------	52,213	66,761
Indian Ridge	21	135,776	16,468	----------	152,244[12]	192	418	1	12	----------	102,759	625
Knickerbocker	20	87,373	16,750	----------	104,123 [8]	193	258	1	4	----------	50,570	1,887
Kohinoor	21	----------	----------	----------	[13]	187	180	----------	7	----------	18,239	600
Lincoln	25	295,840	67,164	11,551	374,555	229	1,043	1	12	----------	179,900	11,175
Lincoln Washery	25	191,080	----------	----------	191,080	362	86	1	1	----------	3,525	25
Mahanoy City	20	180,527	29,666	28,077	238,270	195	686	2	10	----------	133,289	3,850
Maple Hill	20	212,081	34,764	----------	246,845	179	868	4	22	----------	65,281	47,450
Middle Creek	25	189,931	11,618	5,162	206,711	180	530	----------	5	2,200	144,640	----------
North Mahanoy	20	173,274	46,093	7,668	227,035	182	671	2	16	----------	106,897	5,300
Otto	19	157,610	39,119	4,643	201,372	185	647	----------	11	----------	60,021	49,500
Phoenix Park	19	25,936	32,757	811	59,504	50	133	3	6	----------	2,258	19,870
Pine Forest Washery	18	266,626	11,898	----------	278,524	355	98	1	----------	----------	----------	----------
Pine Knot	19	154,110	54,819	13,062	221,991[6]	179	657	----------	10	6,125	175,571	32,469
Reevesdale	18	202,128	13,358	16,844	232,330	341	294	1	4	----------	80,039	35,948
Saint Nicholas	20	82,520	41,870	2,611	127,001	194	481	----------	2	----------	111,309	2,695

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1927—Concluded

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Explosives		
										Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
SCHUYLKILL COUNTY—Cont'd.												
Phila. & Reading Coal & Iron Co.—Cont'd.												
Schuylkill Washery	18	2,428	329	----------	2,757	16	10	----------	----------	----------	----------	----------
Shenandoah City	21	91,555	42,026	42,954	176,535	192	652	3	20	----------	85,889	1,875
Silver Creek	18	225,721	35,443	3,992	265,156	169	715	1	12	----------	166,660	----------
Suffolk	20	125,462	6,830	----------	132,292[9]	194	418	----------	13	----------	[9]	----------
Thomaston	19	----------	12,921	----------	12,921[4]	179	290	----------	6	----------	[4]	[4]
Tower City	25	164,603	724	----------	165,327	244	302	----------	4	----------	130,665	----------
Tunnel Ridge	20	138,077	37,976	----------	176,053	179	636	3	11	----------	145,315	2,833
Turkey Run	21	----------	----------	----------	[13]	187	281	2	9	----------	44,988	410
Valley View	25	110,198	----------	----------	110,198	188	309	----------	2	----------	124,800	----------
Wadesville	18	208,961	35,663	47,272	291,896	184	932	2	21	----------	83,642	160,910
West Shenandoah	21	268,059	39,040	2,070	309,169[21]	187	531	2	10	----------	50,184	21,512
Total	----------	5,298,118	1,033,324	249,227	6,580,669	----------	18,036	43	324	11,375	2,949,664	597,225
Pine Hill Coal Co.												
Oak Hill	19	307,426	9,179	7,314	323,919[7]	279	810	5	18	8,005	110,998	94,515
Pine Hill	19	319,850	36,432	1,675	357,957	280	923	3	26	----------	169,342	187,300
Total	----------	627,276	45,611	8,989	681,876	----------	1,733	8	44	8,005	280,340	281,815
Repplier Coal Co.												
New Castle	19	250,451	2,972	2,062	255,485	229	469	----------	10	----------	83,508	128,725
Saint Clair Coal Co.												
Saint Clair	18	316,454	16,000	20,700	353,154[3]	301	549	1	2	50	158,000	----------
Sherman Coal Corp.												
Sherman	19	110,514	----------	31,172	141,686	294	169	----------	4	----------	36,625	23,819
South Penn Collieries Co.												
Randolph	18	139,218	2,424	----------	141,642	299	234	5	8	----------	79,100	18,975

Susquehanna Collieries Co.												
William Penn	21	228,100	35,696	1,914	265,710[21]	235	557	8	10		155,271	
Grand total		14,220,739	1,710,818	411,924	16,343,481	222	37,829	109	663	80,355	7,392,287	2,142,896

[1] Coal prepared at Spring Mountain Colliery, 16th District.
[2] Includes 72,600 tons from stripping.
[3] Includes 34,930 tons from stripping.
[4] Coal prepared at Pine Knot breaker; 21,423 tons from stripping.
[5] Includes 1,885 tons from stripping.
[6] Includes 27,096 tons from stripping.
[7] Includes 16,294 tons from stripping.
[8] Coal prepared at Ellangowan Colliery.
[9] Coal prepared at Saint Nicholas Colliery; dynamite included with Saint Nicholas.
[10] Coal prepared at Tunnel Ridge Colliery.
[11] Coal prepared at Packer No. 4 breaker.
[12] Coal prepared at Shenandoah City Colliery.
[13] Coal prepared at West Shenandoah Colliery.
[14] Includues 51,000 tons from stripping..
[15] Includes 8,899 tons from stripping.
[16] Includes 3,412 tons from stripping.
[17] Includes 93,683 tons from stripping.
[18] Includes 7,945 tons from stripping.
[19] Includes 4,027 tons from stripping.
[20] Includes 220,140 tons from stripping.
[21] Includes 18,563 tons from stripping.
[22] Includes 6,951 tons from stripping.

SULLIVAN COUNTY												
Connell Anthracite Mining Co.												
Connell	10	84,780	21,620	5,029	111,429	117	475		4	69,075	9,050	3,900
Northern Anthracite Coal Co.												
Murray	10	19,294	5,000	1,510	25,804	79	159			2,500		23,400
Grand total		104,074	26,620	6,539	137,233	107	634		4	71,575	9,050	27,300
SUSQUEHANNA COUNTY												
Hillside Coal & Iron Co.												
Forest City	1	104,362	12,146	4,062	120,570	229	435	1	1	48,156	28,677	80,912
Hudson Coal Co.												
Clinton	1	106,938	6,156	1,798	114,892	235	177	1	4	115,017	21,099	28,650
Grand total		211,300	18,302	5,860	235,462	231	612	2	5	163,173	49,776	109,562
WAYNE COUNTY												
Hillside Coal & Iron Co.												
Forest City	1	32,956	3,836	1,283	38,075	229	217		3	15,207	9,056	25,551
Hudson Coal Co.												
Clinton	1	6,868	395	116	7,379	235	14			9,080	1,666	2,262
Northern Anth. Collieries Corp.												
Northeast	1	8,650	150		8,800[1]	193	51		1	350	575	675
Grand total		48,474	4,381	1,399	54,254	223	282		4	24,637	11,297	28,488
Grand total all counties		62,518,333	5,856,317	2,488,880	70,863,530	227	167,648	492	2,147	13,583,258	22,653,518	19,622,988

[1] Coal prepared at Throop Washery, 6th District.

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
CARBON COUNTY													
Coleraine Collieries Co.													
Coleraine Washery	16	14,436	----------	244	14,680	143	63	--------	--------	--------	----------	2,650	----------
Coxe Brothers & Co. Inc.													
Beaver Meadow	16	169,005	17,761	5,914	192,680 [1]	177	609	--------	9	49	----------	177,750	----------
Evans Colliery Co.													
Evans	16	77,245	600	7,998	85,843	231	207	1	1	1	----------	7,450	67,175
Lehigh Coal & Navigation Co.													
Coaldale	17	308,956	24,187	13,347	346,490	232	588	1	10	--------	----------	----------	----------
Lansford	17	303,493	23,445	----------	326,938	134	1,491	6	16	98	----------	390,332	29,275
Nesquehoning	17	727,158	14,511	10,453	752,122	238	1,511	3	22	231	5,400	627,581	125,843
Total	--------	1,339,607	62,143	23,800	1,425,550	----------	3,590	10	48	329	5,400	1,017,913	155,118
Lehigh Valley Coal Co.													
Spring Brook [2]	16	67,000	----------	----------	67,000	178	221	1	1	33	----------	31,685	----------
Grand total	--------	1,667,293	80,504	37,956	1,785,753	192	4,690	12	59	412	5,400	1,237,448	222,293
COLUMBIA COUNTY													
Hazle Brook Coal Co.													
Midvalley	22	94,898	2,320	776	97,994 [1]	222	104	--------	--------	16	----------	76,070	----------
Lehigh Valley Coal Co.													
Centralia	22	260,401	55,788	6,138	322,327 [2]	172	744	--------	12	87	----------	251,934	----------
Continental Washery	22	126,445	8,606	----------	135,051	219	35	--------	--------	3	----------	----------	----------
Total	--------	386,846	64,394	6,138	457,378	----------	779	--------	12	90	----------	251,934	----------

[1] Includes 92,023 tons from stripping.
[2] Coal prepared at Spring Mountain colliery.

Phila. & Reading Coal & Iron Co.													
Potts	22	342,759	38,864	11,969	393,592	284	643	1	6	87		99,253	90,867
Grand total		824,503	105,578	18,883	948,964	224	1,526	1	18	193		427,257	90,867

[1] Includes 23,660 tons from stripping.
[2] Includes 24,628 tons from stripping.

DAUPHIN COUNTY

Susquehanna Collieries Co.													
Short Mountain	25	260,012	53,581	15,179	328,772	206	939		18	79		127,462	111,810
Williamstown	25	335,371	48,039	6,738	390,148	203	1,293	1	20	130		113,690	203,770
		595,383	101,620	21,917	718,920		2,232	1	38	209		241,152	315,580
Short Mountain Washery	25	84,387	5,368		89,755	298	33						
Grand total		679,770	106,988	21,917	808,675	206	2,265	1	38	209		241,152	315,580

LACKAWANNA COUNTY

Beardslee & Lewis Coal Co.													
Stone Quarry	1		10	4,249	4,259	112	41				250	300	9,500
Childs Coal Co.													
No. 1 Mine	2	3,150			3,150[1]	198	11				2,000		
D. F. M. Co.													
No. 1 Mine	2	5,893	95		5,988[2]	195	20	1		1	4,000		
Dunmore Anthracite Coal Co.													
Dunmore	6	2,997	228	109	3,334	190	38		2	7	650	1,100	
John Gibbons Coal Co.													
Gibbons	5	40,741	700	10,180	51,621 [3]	192	87		2	16		4,100	1,000
Glen Alden Coal Co.													
Archbald	5	282,300	12,912		295,212	216	1,009	1	12	154	65,625	116,250	
Baker	5	509,289	31,620		540,909	248	1,172	6	14	147	346,975	215,237	3,700
Diamond	3	499,359	32,054		531,413	247	1,389	3	20	203	242,925	621,000	900
Hampton Plant	5						69						
Hyde Park	5	291,708	114	61,067	352,889	249	1,232	1	13	125	130,500	195,750	250
Pyne	4	331,247	16,407	4,029	351,683	244	1,027	2	21	153	271,250	64,825	
Storrs	6	928,638	65,443	24,989	1,019,070	249	2,439	9	31	255	1,095,425	467,025	67,625
Taylor	4	273,750	11,368	18,729	303,847	192	1,194	4	13	139	151,950	117,338	3,575
Total		3,116,291	169,918	108,814	3,395,023		9,531	26	124	1,176	2,304,650	1,797,425	76,050
Glendale Anthracite Collieries													
Glendale	1	157,222	240	1,180	158,642	264	359	4	2		4,200	27,200	151,000
Green Ridge Coal Co.													
Green Ridge	4	54,850	187	7,918	62,955	295	126		7	43	11,375	2,325	58,000

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LACKAWANNA COUNTY—Cont'd.													
Grove Hill Coal Co.													
Lackawanna	6	28,631			28,631	276	53				10,800	25,150	
Hillside Coal & Iron Co.													
Forest City	1	109,713	11,013	4,966	125,692	179	376						
Hudson Coal Co.													
Clinton	1	105,468	7,147	2,673	115,288	143	195		4	51	255,225	38,095	33,612
Coal Brook	2	672,313	51,265	5,779	729,357	243	1,538	2	26	639	290,975	73,190	67,835
Eddy Creek	3	792,236	47,402		839,638	238	1,671	2	15	222	869,325	8,400	189,985
Gravity Slope	2	398,730	8,001	8,454	415,185	184	1,123	4	21	139	104,700	22,837	93,771
Greenwood	5	74,497	8,478	3,394	86,369	103	386		14	23	75,925	5,808	15,028
Jermyn	2	549,832	7,011		556,843	220	1,005	[illegible]	17	141	403,025	4,026	101,076
Marvine	3	566,462	30,718	27,775	624,955	221	1,772	[illegible]	22	228	680,984	59,688	153,438
Olyphant	6	828,711	101,829	25,353	955,893	244	1,848	4	24	245	410,150	16,350	339,622
Powderly	2	331,161	14,660	15,036	360,857	179	1,126	2	8	167	146,000	935	34,391
		4,319,410	276,511	88,464	4,684,385		10,664	24	151	1,855	3,236,309	229,329	1,028,758
Gravity Slope Washery	2	38,320	62,637		100,957								
Total		4,357,730	339,148	88,464	4,785,342		10,664	24	151	1,855	3,236,309	229,329	1,028,758
Humbert Coal Co.													
Sunnyside	1	98,310	300	740	99,350	255	225		3	21	23,125	8,250	108,500
Jermyn & Co.													
Jermyn	4	72,972	5,400	6,807	85,179	72	637	2	7	8	50,000	39,000	55,000
Lackawanna Anthracite Mining Co.													
Richmondale	1	61,630	750	240	62,820	217	188	2	2	20	7,500	4,000	14,400

Lackawanna Coal Co. Ltd.													
Lackawanna	6	211,230	4,388	3,805	219,423	174	468	1	7	62	11,700	173,875	----------
Lackawanna Valley Fuel Co.													
Glenwood Washery	2	20,358	----------	----------	20,358	226	9	--------	--------	3	----------	----------	----------
Old Buffalo Mine	1	9,429	----------	----------	9,429	300	41	--------	--------	9	250	1,975	3,375
Throop Washery	6	24,888	300	----------	25,188	178	25	1	--------	3	----------	----------	----------
Total	--------	54,675	300	----------	54,975	---------	75	1	--------	15	250	1,975	3,375
Langcliffe Collieries Inc.													
Boland Mine	1	35,508	250	380	36,138 [4]	136	111	--------	2	7	21,700	4,500	21,000
Tappans Mine	2	46,388	444	592	47,424[4]	95	149	--------	1	28	----------	380	37,110
Total	--------	81,896	694	972	83,562	---------	260	--------	3	35	21,700	4,880	58,110
Lehigh Valley Coal Co.													
Broadwell	7	47,815	966	2,415	51,196[5]	188	113	1	1	19	13,425	23,300	31,650
Lincoln Coal Co.													
Oak Run	2	21,854	----------	3,527	25,381	261	70	--------	3	21	2,000	----------	41,000
Meadowside Coal Co.													
Meadowside	6	30,006	500	10,206	40,712	256	126	3	4	34	15,250	8,025	8,900
Mid-City Coal Co.													
Bulls-Head	3	43,761	800	19,156	63,717	208	178	--------	4	16	7,375	7,600	47,500
Mine Run Coal Co.													
Devils Eyebrow Mine	1	14,866	295	----------	15,161	305	37	1	2	--------	----------	700	1,200
Moffat Coal Co.													
Moffat	5	61,476	320	----------	61,796	211	153	--------	2	37	5,250	8,225	47,855
Murrin Coal Co.													
Fallbrook	1	28,019	326	3,359	31,704	231	87	--------	2	28	2,875	1,100	11,500
Namura Coal Co.													
Namura	5	5,313	----------	----------	5,313[6]	263	14	--------	--------	1	3,750	1,250	----------
Pennsylvania Coal Co.													
Erie Mine	2	192,108	1,943	----------	194,051[7]	269	454	1	1	111	13,170	18,300	139,300
No. 1	6	847,302	43,178	----------	890,480	287	1,468	3	22	416	919,000	13,500	151,200
No. 5	4	202,666	13,969	27,083	243,718	285	543	2	5	207	194,000	28,850	50,750
Old Forge	4	327,688	54,667	9,380	391,735	285	1,032	4	6	162	112,500	13,500	125,000
Underwood	6	695,949	34,931	8,607	739,487	281	1,374	3	13	295	487,500	136,000	233,100
Total	--------	2,265,713	148,688	45,070	2,459,471	---------	4,871	13	47	1,191	1,726,170	210,150	699,950
Price-Pancoast Coal Co.													
Pancoast	4	202,461	19,700	5,188	227,349	209	547	4	11	122	143,575	17,050	28,400
Public Service Coal Co.													
Marshwood	6	33,958	195	1,303	35,456	153	232	2	2	29	----------	200	10,750
Racket Brook Coal Co.													
Racket Brook	1	97,777	500	5,926	104,203	152	349	--------	1	45	85,150	13,375	103,750
Raub Coal Co.													
Austin Tunnel	7	42,188	----------	----------	42,188[8]	246	132	--------	1	9	500	10,000	46,000

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LACKAWANNA COUNTY—Cont'd.													
Roaring Brook Coal Co.													
Roaring Brook	4	27,000	200	----------	27,200	300	58	--------	--------	--------	60,000	3,000	15,000
Scranton Coal Co.													
Capouse	4	160,469	5,808	----------	166,277[9]	200	581	--------	3	52	209,125	33,750	148,750
Johnson	6	116,826	1,626	21,901	140,353	181	666	2	21	52	121,125	26,525	102,375
Mt. Pleasant	4	64,350	4,609	----------	68,959[10]	265	238	2	2	32	48,750	1,950	8,700
Ontario	6	115,739	5,918	34,707	156,364	145	606	--------	5	26	24,425	38,550	152,560
Pine Brook	4	443,176	11,498	59,117	513,791	287	1,188	--------	11	55	350,325	60,000	92,050
Raymond Mine	2	106,850	4,672	3,016	114,538[11]	140	490	--------	3	29	28,125	16,250	146,250
Richmond No. 3	6	22,165	7,321	246	29,732	198	145	1	--------	10	10,075	6,500	85,000
Riverside	2	96,190	9,016	11,177	116,383	154	466	--------	4	18	162,700	12,050	32,750
West Ridge	3	8,670	----------	110	8,780[12]	241	33	1	--------	8	----------	500	4,500
Total	--------	1,134,435	50,468	130,274	1,315,177	----------	4,413	6	49	282	954,650	196,075	772,935
South Penn Collieries Co.													
Legitts Creek	3	356,166	31,156	4,725	392,047[13]	293	739	3	12	262	63,450	11,956	309,353
Von Storch	3	287,020	29,482	66,785	383,287	301	764	3	14	267	14,775	26,459	253,441
Total	--------	643,186	60,638	71,510	775,334	----------	1,503	6	26	529	78,225	38,415	562,794
Spencer Coal Co.													
Spencer	6	51,631	500	24,211	76,342	237	209	1	7	42	2,650	19,600	11,950
Sunrise Coal Co.													
Sunrise Stripping	2	9,091	1,000	----------	10,091[14]	221	8	1	--------	2	----------	200	----------
Temple Coal Co.													
Northwest	1	27,106	2,551	1,238	30,895	36	388	--------	1	4	50	65,225	----------
Sterrick Creek	2	263,275	30,997	18,514	312,786	220	710	4	4	210	65,775	390,875	----------
Total	--------	290,381	33,548	19,752	343,681	----------	1,098	4	5	214	65,825	456,100	----------

Throop Coal Co.													
Crippen	6	15,230	----------	7	15,237	288	20	--------	--------	1	1,600	----------	3,350
West Jermyn Coal Co.													
West Jermyn	2	10,341	----------	1,000	11,341	285	22	--------	4	6	2,000	----------	15,000
Grand total	--------	13,534,633	852,015	581,348	14,967,996	227	37,399	103	481	5,887	8,858,779	3,333,274	4,023,177

[1] Coal prepared at Washery of Lackawanna Valley Fuel Co., Throop.
[2] Coal prepared at Sterrick Creek breaker.
[3] Includes 38,716 tons from stripping.
[4] Coal prepared at Avoca breaker, 7th District.
[5] Coal prepared at Seneca breaker.
[6] Coal prepared by Kingston Coal Co.
[7] Coal prepared at Underwood breaker, 6th District.
[8] Coal prepared at Louise breaker, 10th District.
[9] Coal prepared at Johnson Colliery, 6th District.
[10] Coal prepared at Pine Brook Colliery, 4th District.
[11] Coal prepared at Ontario breaker, 6th District.
[12] Coal prepared at Johnson breaker, 6th District.
[13] Coal prepared at Von Storch breaker.

LUZERNE COUNTY

Alden Coal Co.													
Alden	14	279,51_	3,267	7,169	289,948	270	790	--------	13	140	2,575	9,743	135,129
Alden Washery	14	117,695	4,110	534	122,339	363	22	--------	1	--------	----------	----------	----------
Total	--------	397,207	7,377	7,703	412,287	---------	812	--------	14	140	2,575	9,743	135,129
Barry Coal Co.													
Barry stripping	12	4,700	----------	----------	4,700[1]	299	37	--------	--------	--------	----------	1,100	----------
Buck Mountain Coal Mining Co.													
Gowen	15	120,685	1,039	2,896	124,620	248	192	1	5	122	----------	94,937	32,700
Clifford Coal Co.													
Clifford Washery	7	27,429	600	3,186	31,215[2]	200	35	--------	--------	--------	----------	----------	----------
Clifford stripping	7	11,000	870	----------	11,870[3]	290	16	--------	--------	--------	----------	300	----------
Total	--------	38,429	1,470	3,186	43,085	---------	51	--------	--------	--------	----------	300	----------
John Conlon Coal Co.													
Conlon	10	8,117	----------	----------	8,117	117	52	--------	--------	2	1,600	850	2,500
Madeira	10	151,724	435	20,753	172,912	267	390	1	10	143	112,400	45,700	78,750
Total	--------	159,841	435	20,753	181,029	---------	442	1	10	145	114,000	46,550	81,250
Coxe Brothers & Co., Inc.													
Deringer & Tomhicken	15	241,658	1,117	11,958	254,733	166	839	--------	8	106	----------	290,415	----------
Drifton	15	176,241	64,026	9,250	249,517	182	595	2	10	52	----------	89,386	----------
Eckley & Buck Mountain	15	225,035	11,962	9,302	246,299	196	397	2	4	31	----------	58,875	----------
Total	--------	642,934	77,105	30,510	750,549	---------	1,831	4	22	189	----------	438,676	----------
R. M. Cranston													
Cranston	8	12,662	100	----------	12,762	264	25	--------	--------	1	700	1,000	10,000

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LUZERNE COUNTY—Cont'd.													
Charles M. Dodson & Co.													
Beaver Brook	16	98,689	2,186	1,125	102,000	122	406	3	4	34	----------	37,175	----------
East Alden Mining Co.													
East Alden	14	21,246	150	----------	21,396	202	48	--------	1	18	----------	3,075	18,400
East Boston Coal Co.													
East Boston	10	205,751	45,625	13,820	265,196	291	624	5	9	170	42,500	9,500	95,325
Fox Hill Mining Co.													
Fox Hill	10	30,430	----------	----------	30,430[4]	287	43	--------	--------	21	10,250	750	18,155
Glen Alden Coal Co.													
Auchincloss	14	325,724	8,500	----------	334,224[5]	258	581	--------	6	51	----------	----------	226,000
Avondale	13	234,914	14,430	7,400	256,744	259	581	1	11	98	----------	5,650	124,000
Bliss	14	581,012	36,370	8,589	625,971	258	1,121	4	12	179	8,000	37,000	343,000
Hallstead	7	116,826	----------	4,469	121,295[6]	174	457	--------	2	51	7,500	4,300	66,850
Loomis	13	887,926	37,029	12,270	937,225	260	1,858	2	28	243	----------	68,900	708,000
Loomis Power Plant	13	----------	----------	----------	----------	366	71	--------	--------	--------	----------	----------	----------
Pettebone	10	451,733	35,239	10,165	497,137	249	1,168	4	19	198	28,750	44,925	436,400
Truesdale	13	1,289,663	46,648	9,487	1,345,798	260	2,610	12	25	316	----------	130,000	987,125
Woodward	12	866,481	37,179	25,382	929,042	258	1,602	--------	24	--------	24,375	8,000	601,000
Total	--------	4,754,279	215,395	77,762	5,047,436	--------	10,049	23	127	1,136	68,625	298,775	3,492,375
Grand Tunnel Coal Co.													
West Nanticoke	13	84,701	569	927	86,197	184	253	2	7	66	----------	4,800	18,825
Haddock Mining Co.													
Black Diamond	10	183,998	13,112	7,806	204,916	299	485	1	25	140	14,175	3,250	148,500
Hanover Coal Co.													
Cullen Washery	12	4,000	20	2,000	6,020	130	23	--------	--------	--------	----------	----------	----------
Harris-Denly Coal Co.													
Kintz	9	12,556	1,825	6,461	20,842	289	38	--------	1	11	----------	2,400	24,000
Hazle Brook Coal Co.													
Hazle Brook	15	190,402	7,182	770	198,354	255	111	--------	--------	1	----------	54,250	----------

Upper Lehigh	15	130,923	8,858	6,398	146,179	245	256	----	4	27	----	59,698	----
Total	----	321,325	16,040	7,168	344,533	----	367	----	4	28	----	113,948	----
Hillside Coal & Iron Co.													
Butler	7	391,039	22,639	7,025	420,703	196	1,256	7	9	163	299,375	154,225	71,000
Hudson Coal Co.													
Baltimore No. 5	11	214,978	28,189	10,943	254,110[7]	124	904	15	25	----	113,258	22,970	90,007
Baltimore No. 2 Bank	11	----	35,091	----	35,091	124	374	----	----	----	----	----	----
Laflin	7	73,379	8,676	1,061	83,116	88	299	3	3	39	97,400	16,964	----
Loree No. 5—Boston	12	604,059	86,261	18,154	708,474[8]	179	2,547	4	26	----	510,100	61,582	29,613
Loree Bank	12	----	2,544	----	2,544	----	----	----	----	----	----	----	----
Pine Ridge	10	471,696	52,241	10,948	534,885	164	1,879	5	23	225	606,300	99,052	96,819
Total	----	1,364,112	213,002	41,106	1,618,220	----	6,003	27	77	264	1,327,058	200,568	216,439
Jeddo-Highland Coal Co.													
Highland No. 2	15	----	15,702	----	15,702	266	178	1	4	25	----	12,329	----
Highland No. 5	15	418,722	25,298	16,070	460,090	259	727	5	10	132	----	259,949	71,775
Jeddo No. 4	15	584,123	42,610	44,584	671,317	255	1,091	3	8	226	----	416,625	29,100
Jeddo No. 7	15	----	10,089	----	10,089	248	157	----	1	22	----	30,500	----
Total	----	1,002,845	93,699	60,654	1,157,198	----	2,153	9	23	405	----	719,403	100,875
John-Ames Coal Co.													
Franklin Washery	11	18,811	110	13,622	32,543	225	33	----	----	----	----	----	----
Kingston Coal Co.													
Gaylord	12	80,429	9,600	16,975	107,004	283	308	2	4	----	3,675	9,139	9,587
Kingston No. 2	12	243,292	15,500	54,192	312,984	282	782	4	8	----	108,400	11,963	18,162
Kingston No. 4	9	276,586	31,500	2,754	310,840	284	711	2	10	170	51,575	11,775	48,925
Total	----	600,307	56,600	73,921	730,828	----	1,801	8	22	170	163,650	32,877	76,674
Langcliffe Collieries Co.													
Avoca	7	119,377	3,294	3,553	126,224[9]	116	273	1	----	17	----	13,000	21,825
George F. Lee Coal Co.													
Chauncey	13	97,456	352	27,470	125,278	274	313	3	3	32	----	10,325	59,150
Lehigh Coal Co.													
Hazle Mountain No. 5	15	19,771	----	----	19,771[10]	291	67	----	----	29	----	4,000	----
Lehigh Coal & Navigation Co.													
Cranberry	16	241,703	18,175	115,268	375,146[11]	203	1,090	1	6	74	----	32,000	152,987
Lehigh Valley Coal Co.													
Dorrance	11	415,722	37,100	86,188	539,010	245	1,052	1	22	----	67,075	421,650	----
Exeter	9	268,032	55,373	25,228	348,633	207	832	3	7	115	6,825	286,375	1,100
Franklin	11	211,899	27,782	5,652	245,333	219	619	1	16	----	1,350	16,200	124,325
Hazleton No. 1	15	222,031	17,490	49,944	289,465	222	606	1	9	92	----	126,693	----
Hazleton Shaft & Stockton	15	236,639	55,144	8,156	299,939	181	785	----	9	88	----	147,843	----
Heidelberg	7	59,201	6,288	2,497	67,986	128	233	----	----	12	1,425	43,675	----
Maltby	9	205,208	23,875	12,445	241,528	221	606	2	8	61	10,600	182,850	----

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LUZERNE COUNTY—Cont'd.													
Lehigh Valley Coal Co.—Cont'd.													
Mineral Spring	10	94,036	15,890	4,131	114,057	138	515	4	7	72	1,725	98,100	----------
Prospect	9	200,601	43,540	2,917	247,058	196	822	3	17	177	61,025	148,075	22,750
Prospect (Henry)	10	252,647	35,119	8,040	295,806	196	754	1	22	108	103,375	237,200	1,950
Seneca	7	98,758	26,953	8,308	134,019	176	505	3	5	38	18,480	35,237	67,200
Spring Mountain	16	173,172	42,897	4,284	220,353	178	447	2	3	40	----------	68,529	----------
Warrior Run	13	59,243	7,724	2,374	69,341	220	125	--------	2	15	----------	30,000	----------
Westmoreland	9	143,619	12,219	6,131	161,969	216	389	1	4	64	300	91,375	----------
William A.	7	137,988	1,864	6,559	146,411[12]	182	361	3	5	35	825	98,175	----------
Total	--------	2,778,796	409,258	232,854	3,420,908	----------	8,651	25	136	917	273,005	2,031,977	217,325
Lehigh & Wilkes-Barre Coal Co.													
Buttonwood No. 22	13	435,610	41,723	7,264	484,597	232	1,031	1	26	146	----------	8,375	267,200
Hollenback No. 2	11	236,687	26,289	66,466	329,442	236	840	1	10	--------	18,600	31,550	223,100
Lance No. 11	12	444,875	27,213	56,810	528,898	225	1,122	5	21	--------	235,375	7,275	200,825
Maxwell No. 20	13	669,694	39,600	22,817	732,111	233	1,613	13	23	227	----------	13,700	494,675
Nottingham No. 15	12	355,723	36,253	19,303	411,279	240	1,000	11	18	--------	61,825	20,428	136,450
So. Wilkes-Barre No. 5	11	327,852	34,737	101,511	464,100	237	1,137	5	11	--------	----------	7,050	283,125
Stanton No. 7	11	630,506	51,946	52,495	734,947	229	1,726	3	14	--------	8,700	8,275	566,025
Sugar Notch No. 9	13	358,737	28,713	5,133	392,583	233	1,090	3	6	135	50	27,025	318,875
Wanamie No. 18	14	699,247	31,456	8,048	738,751	237	1,428	5	16	164	1,025	73,835	355,475
Total	--------	4,158,931	317,930	339,847	4,816,708	----------	10,987	47	145	672	325,575	197,513	2,845,750
Lehigh-Wyoming Valley Coal Co.													
Florence	7	65,706	----------	11,306	77,012	287	184	--------	--------	28	1,500	36,000	----------
Lynott & Brown													
Stripping	8	----------	10	4,859	4,869	272	15	--------	--------	--------	----------	400	----------

Miners Mills Coal Mining Co.													
Miners Mills	10	85,036			85,036[13]	293	159	1	3		225	3,825	36,800
Mt. Lookout Coal Co.													
Mt. Lookout	9	110,056	13,344	11,255	134,655	165	469	2	2	23	8,475	99,625	
Nanticoke Valley Coal Co.													
Nanticoke Washery	14	55,006			55,006	294	53						
Pardee Brothers & Co.													
Beaver Brook	16	33,734	2,182	108	36,024[14]	85	257		3	17		27,775	
Lattimer	15	344,435	57,181	10,780	412,396	279	957	2	10	135		478,875	18,750
Total		378,169	59,363	10,888	448,420		1,214	2	13	152		506,650	18,750
Pennsylvania Coal Co.													
Central	7	171,572	9,649	3,130	184,351[15]	225	508	3	12	109	131,250	42,500	44,100
Ewen	8	468,628	48,962	51	517,641	223	1,458	3	17	236	238,125	21,050	145,475
No. 6	8	260,698	40,965	7,768	309,431	141	1,549	3	12	155	240,625	56,800	98,000
No. 9	8	506,015	49,004	15,131	570,150	215	1,680	6	14	271	210,000	79,500	231,200
No. 14	8	429,774	45,144	9,616	484,534	196	1,571	6	6	262	349,375	43,500	131,600
Total		1,836,687	193,724	35,696	2,066,107		6,766	20	61	1,033	1,169,375	243,350	650,375
Pittston Coal Mining Co.													
Hadleigh	13	53,914	15,000	889	69,803	244	165	1	2	49		9,000	18,000
Plymouth Red Ash Coal Co.													
Red Ash	12	14,470	78	5,403	19,951	233	69	1				50	2,500
T. F. Quinn Coal Co.													
Consolidated	7	25,266	1,905	693	27,864	127	181		1	5		4,750	20,000
Raub Coal Co.													
Louise	10	47,696	600	20,678	68,974	196	236		1	20	200	11,000	16,000
Sandy Run Coal Co.													
Sandy Run	15	115,273	1,121	1,262	117,656	234	207		2	30		20,100	
Scranton Anthracite Coal Co.													
Barnum	7	46,513	550	126	47,189	274	107		2	60			12,372
Pickaway	7	15,055			15,055[16]	220	68			1			3,846
Total		61,568	550	126	62,244		175		2	61			16,218
E. S. Stackhouse Coal Co.													
Salem	14	28,270	300	3,348	31,918	166	115				1,150	6,025	11,225
Sullivan & Flynn Coal Co.													
Sullivan & Flynn	11	13,673	340	9,188	23,201	299	47				750		6,600
Suscon Coal Co.													
Suscon	9	13,325[18]			13,325[17]	190	22		1		3,500	625	
Susquehanna Collieries Co.													
No. 6	14	696,496	39,965	7,178	743,639	277	1,459	2	31	121		140,370	149,625
No. 7	14	894,897	30,108	28,279	953,284	285	2,326	9	49	220	61,975	48,401	722,538
Washery	14	63,626	985		64,611	156	51						
Total		1,655,019	71,058	35,457	1,761,534		3,836	11	80	341	61,975	188,771	872,163

Table 2—Number of tons of coal mined, number of days wor ked, number of persons employed, number killed and injured, quantity of powder, dynamite and perm issible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
LUZERNE COUNTY—Cont'd.													
Temple Coal Co.													
Harry E.	9	329,730	47,779	11,548	389,057	289	902	1	9	62	70,350	303,700	----------
Terry Coal Co.													
Black Creek Washery	13	13,640	----------	----------	13,640	235	4	----------	----------	----------	----------	----------	----------
Troy Coal Co.													
Troy	9	20,305	250	5,124	25,679	297	58	----------	2	2	----------	8,000	20,000
West End Coal Co.													
West End	14	223,600	3,252	9,044	235,896	153	856	1	8	151	375	44,250	81,700
Wolf Collieries Co., Inc.													
Woodside Mine	15	25,203	----------	----------	25,203[19]	182	71	----------	----------	----------	----------	19,500	----------
Yatesville Coal Co.													
Yatesville	9	81,948[18]	----------	----------	81,948[20]	286	125	----------	3	6	58,500	26,550	----------
Grand total	----------	23,140,141	1,926,181	1,274,201	26,340,523	223	64,282	208	840	6,927	4,017,863	5,994,038	9,607,015

[1] Coal prepared at East Boston breaker, 10th District.
[2] Coal prepared from refuse from No. 9 and Underwood Collieries, Penn sylvania Coal Co.
[3] Coal prepared by Kingston Coal Co.
[4] Coal prepared at No. 2 breaker, Kingston Coal Co.. 12th District.
[5] Coal prepared at Loomis breaker, 13th District.
[6] Breaker abandoned June 14, 1928—13,587 tons prepared at Diamond breaker, 3rd District; 28,970 tons prepared at Taylor breaker, 4th District.
[7] Includes 3,705 tons from stripping.
[8] Includes 48,112 tons from stripping.
[9] 46,388 tons mined at Archbald Colliery, 2nd District, and 25,622 tons mined at Carbondale Colliery, 1st District, prepared at Avoca Colliery.
[10] Coal prepared at Breaker of Nanticoke Valley Coal Co., 14th District.
[11] Includes 89,332 tons from stripping.
[12] Coal prepared at Seneca breaker.
[13] Coal prepared at East Boston breaker.
[14] Coal prepared at Lattimer breaker, 15th District.

[15] Coal prepared at Old Forge breaker, 4th District.
[16] Coal prepared at Barnum breaker.
[17] Includes 4,000 tons from stripping.
[18] Run of Mine.
[19] Coal prepared at Drifton breaker.
[20] Includes 6,500 tons from stripping.

NORTHUMBERLAND COUNTY													
Colonial Colliery Co.													
Colonial	23	720,039	5,915	7,832	733,786[1]	296	1,177	3	4	110		125,429	407,754
Excelsior Coal Co.													
Corbin	24	213,130	6,000	1,070	220,200	248	267		1	45		1,200	21,850
Lehigh Valley Coal Co.													
Sayre	22	269,403	60,326	10,620	340,349[2]	164	824	2	12	101		224,105	
Northumberland Mining Co.													
Enterprise	24	374,719	10,794	4,904	390,417	297	771	3	13	232		27,131	339,135
Phila. & Reading Coal & Iron Co.													
Alaska	23	236,178	34,500		270,678	202	572	6	7	46		40,903	91,470
Bear Valley	24	269,360	40,945	7,270	317,575	200	835	1	15	83		244,046	500
Burnside	24	349,136	54,886	30,593	434,615	275	1,026	4	31	170		156,830	57,550
Henry Clay	24	162,516	35,749	42,417	240,682	193	728	1	11	76		120,472	44,650
Locust Spring	23	540,638	134,559	4,649	679,846[3]	284	1,117	1	12	131	3,400	438,907	65,875
North Franklin	24	50,385	21,835	4,784	77,004	48	391		4	20		33,380	
Reliance	23	204,248	31,291	29,100	264,639	253	649	1	5	35		130,635	92,450
Total		1,812,461	353,765	118,813	2,285,039		5,318	14	85	561	3,400	1,165,173	352,495
Shamokin Coal Co.													
Neilson	24	42,121	640	5,180	47,941	80	330		1	32		13,400	26,600
Shamokin Colliery Co.													
Washery	23	216,661	13,000		229,661	284	78						
South Penn Collieries Co.													
Katherine	24	50,905	11,025	2,215	64,145	221	89		2	10		1,165	12,425
Stevens Chapin Coal Co.													
Washery	23	80,870	5,040		85,910	168	44						
Susquehanna Collieries Co.													
Cameron	24	293,726	9,147	15,687	318,560	201	838		11	89		64,801	200,204
Luke Fidler	24	117,763	7,478	2,929	128,170	110	874	3	10	41		30,725	90,195
Pennsylvania	23	168,828	1,383	4,959	175,170	126	1,005	2	9	41		35,100	133,150
Richards	23	383,564	3,122	17	386,703	224	1,133	4	18	129		88,186	330,850
Scott	23	150,041	35,826	7,193	193,060	140	989		12	67		46,100	146,475
Total		1,113,922	56,956	30,785	1,201,663		4,839	9	60	367		264,912	900,874
Grand total		4,894,231	523,461	181,419	5,599,111	207	13,737	31	178	1,458	3,400	1,822,515	2,061,133

[1] Includes 60,794 tons from stripping.
[2] Includes 29,007 tons from stripping.
[3] Includes 44,994 tons from stripping.

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Continued

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
SCHUYLKILL COUNTY													
Black Heath Coal Co.													
Black Heath	19	15,941	350	442	16,733	269	27			1			3,240
Buck Run Coal Co.													
Buck Run	19	269,640	5,113	4,803	279,556	261	641		20	206		86,542	105,400
Chestnut Hill Coal Co.													
Chestnut Hill	18	12,085	60	2,858	15,003	224	52					4,350	10,025
Coxe Brothers & Co. Inc.													
Oneida	16	136,237	14,678	2,417	153,332[1]	154	484	1	1	69		104,910	
East Bear Ridge Colliery Co.													
East Bear Ridge	22	182,185	5,850	4,521	192,556	206	458	1	2	45		108,000	
Frackville Coal Co.													
Lucanna	18	57,523	785	9,406	67,714	251	119		2			13,750	21,700
Gorman & Campion													
Bell	18	56,055	150	4,083	60,288	225	113		11			35,800	
Haddock Mining Co.													
Candlemas	16	610,710	4,825	4,130	619,665[2]	263	939	1	13	179	15,000	391,000	48,100
Salem Hill	18	2,055			2,055[3]		44		1			22,650	
Total		612,765	4,825	4,130	621,720		983	1	14	179	15,000	413,650	48,100
Harleigh-Brookwood Coal Co.													
Lawrence	22	337,089	5,672	7,648	350,409	272	737	3	8	103		214,181	12,160
Thomas	21	234,695	1,745	3,849	240,289	290	388	1	11	102		25,390	60,200
Total		571,784	7,417	11,497	590,698		1,125	4	19	205		239,571	72,360
Hazle Brook Coal Co.													
Girard	22	106,410	8,601		115,011	179	169	1	1	19		47,386	4,575
Maryd	18	194,939	46,216	11,919	253,074	235	342	3	9			89,150	36,125
Raven Run	21	289,349	2,468	1,044	292,861[4]	272	348	2	9	98	34,100	69,051	50,675

Westwood	25	179,432	3,700	2,369	185,501	219	252	1	3	47		39,800	70,075
Total		770,130	60,985	15,332	846,447		1,111	7	22	164	34,100	245,387	161,450
Laurel Coal Mining Co.													
Bickle	22	8,314	50	367	8,731	56	79	1		5		2,000	500
Lehigh Coal & Navigation Co.													
Alliance	18	296,260	7,978	2,450	306,688[4]	207	701		7			60,482	67,330
Coaldale	17	389,783	30,940	17,074	437,797	232	902	1	12	94		494,524	100,810
Greenwood	17	352,310	6,600		358,910	207	829	2	7	210		301,275	40,250
Rahn	17	386,755	9,143		395,898	231	781		9	104		293,485	32,770
Tamaqua	18	378,406	15,571		393,977[5]	233	852		18				
Total		1,803,514	70,232	19,524	1,893,270		4,065	3	53	408		1,149,766	241,160
Lehigh Valley Coal Co.													
Buck Mountain	18	178,420	39,503	2,849	220,772	153	781	2	22			30,568	96,022
Packer No. 2	21	136,601			136,601[6]	167	362	1	7	70			86,492
Packer No. 3	21	79,250			79,250[6]	167	188		1	24			25,499
Packer No. 4	21	95,634	48,935	4,413	148,982[25]	167	389	1	6	81			34,466
Packer No. 5	21	121,014	28,846	3,098	152,958	120	600	2	13	113			154,345
Park	20	329,539	49,921	7,483	386,943	202	945	4	21	239		111,034	120,600
Springdale Washery	20	117,270	2,995		120,265	204	52		1	8			
Total		1,057,728	170,200	17,843	1,245,771		3,317	10	71	535		141,602	517,424
Lehigh & Wilkes-Barre Coal Co.													
Audenried No. 4	16	218,210	44,098	8,587	270,895[7]	226	1,054	1	12	75		169,325	
Honey Brook [8]	16	158,247	22,004		180,251[9]	226	145	2	1	36	3,125	84,750	
Total		376,457	66,102	8,587	451,146		1,199	3	13	111	3,125	254,075	
Locust Mountain Coal Co.													
Weston	21	432,055	6,765	4,411	443,231[26]	252	641	2	14	93		275,717	
Lytle Coal Co.													
Lytle	19	228,683	58,402	5,036	292,121[10]	198	750		12	56		34,720	116,753
Mill Creek Coal Co.													
Moica [11]	18	376,727	3,181	3,466	383,374[12]	262	708		21			89,200	151,890
Phila. & Reading Coal & Iron Co.													
Bancroft	22	77,987	8,555		86,542[13]	101	143		3	17		5,230	10,475
Bast	22	359,793	45,318	16,116	421,227[14]	270	625		8	103		197,599	16,638
Brookside	25	401,535	64,418	9,798	475,751	256	1,065	2	10	86		194,810	
Eagle Hill	18	196,165	36,252	6,322	238,739	145	831	2	6			83,050	83,495
Ellangowan	20	293,659	45,202		338,861	210	877	3	29	127		117,185	22,605
Gilberton	22	257,474	36,261	11,269	305,004[15]	226	845	1	14	169		179,020	2,950
Good Spring	25	226,047	106,485	9,638	342,170	195	868	2	11	76		244,800	26,075
Hammond	21	235,835	49,633	5,020	290,488	233	613	2	13	84		78,333	74,833
Lincoln	25	321,777	54,904	9,875	386,556	209	990	3	14	44		127,925	3,575

Table 2—Number of tons of coal mined, number of days worked, number of persons employed, number killed and injured, quantity of powder, dynamite and permissible explosives used, 1928—Concluded

Operators and collieries	District	Tons of coal shipped to market	Tons used at collieries for steam and heat	Tons sold to local trade and used by employes	Total production of coal in tons (gross)	Number of days worked	Number of employes	Number of fatal accidents	Number of non-fatal accidents disability 60 days or more	Number of non-fatal accidents disability less than 60 days	Explosives		
											Pounds of black powder used	Pounds of dynamite used	Pounds of permissible explosives used
SCHUYLKILL COUNTY—Cont'd.													
Phila. & Reading Coal & Iron Co.—Cont'd.													
Mahanoy City	20	195,367	30,529	27,138	253,034	229	624	4	8	52		43,710	77,800
Maple Hill	20	308,401	66,322	664	375,387[16]	230	1,020	4	39	179		69,695	72,000
Middle Creek Washery	25	120,251	5,843	1,470	127,564	13	43		2	10		14,150	
North Mahanoy	20	223,432	46,413	8,862	278,707	218	681	3	7	68		34,625	77,275
Otto	19	253,564	36,560	5,891	296,015	232	693	1	10	90		83,505	65,527
Phoenix Park	19		8,599	166	8,765[17]		9						10
Pine Forest Washery	18	119,642	6,184	1	125,827	159	97		1			525	3,400
Pine Knot [18]	19	359,220	82,857	7,323	449,400[19]	210	1,181	4	27	163	875	281,775	37,380
Reevesdale	18	88,933	7,928	9,079	105,940	141	332		3			36,072	19,949
Shenandoah City	21	313,037	60,568	44,634	418,239[22]	235	992	3	40	314		108,622	2,340
Silver Creek	18	219,831	33,372	3,744	256,947	149	918	2	14			176,710	
Tunnel Ridge	20	223,876	57,207	3	281,086	212	684	2	10	43		169,073	4,260
Wadesville	18	154,378	30,383	57,098	241,859	178	816		12			56,195	142,175
West Shenandoah	21	361,379	41,909	2,408	405,696	231	981	2	33	245		136,620	46,810
Total		5,311,583	961,702	236,519	6,509,804		15,928	40	314	1,870	875	2,419,229	789,572
Pine Hill Coal Co.													
Oak Hill	19	294,365	5,282	14,783	314,430[20]	232	737	2	11	149		82,436	106,010
Pine Hill	19	361,648	16,194	1,303	379,145	240	969	2	23	141		53,245	195,833
Total		656,013	21,476	16,086	693,575		1,706	4	34	290		135,681	301,843
Repplier Coal Co.													
New Castle	19	224,164	2,232	2,301	228,697	211	479	1	10	105		66,531	144,132
Saint Clair Coal Co.													
Saint Clair	18	264,669	16,000	15,756	296,425[21]	267	550	1	5			150,000	
Sherman Coal Corp.													
Sherman	19	119,736		29,889	149,625	291	188		3	100		41,650	12,900

South Penn Collieries Co.													
Randolph	18	97,444	2,205	400	100,049	184	202		3			30,774	12,891
Susquehanna Collieries Co.													
Wm. Penn	21	196,777	39,441	2,023	238,241[23]	213	585	1	7	47		148,668	
Grand total		13,838,209	1,518,201	421,697	15,778,107	216	35,510	87	651	4,489	53,100	6,191,573	2,711,340

[1] Coal prepared at Spring Mountain colliery.
[2] Includes 72,263 tons from stripping.
[3] Coal prepared at Candlemas colliery, 16th District.
[4] Includes 257 tons of bank coal.
[5] Includes 1,717 tons of bank coal.
[6] Coal prepared at Packer No. 4 breaker.
[7] Includes 12,221 tons from stripping.
[8] Coal prepared at Audenried No. 4 breaker.
[9] Includes 44,358 tons from stripping.
[10] Includes 3,025 tons stored at mines.
[11] 75,778 tons from Wolf Creek Drifts prepared at Lawrence breaker, Harleigh-Brookwood Coal Co., 22nd District.
[12] Includes 70,655 tons from stripping and 1,643 tons from culm bank.
[13] Includes 14,712 tons from stripping.
[14] Includes 76,730 tons from stripping.
[15] Includes 21,993 tons from stripping.
[16] Includes St. Nicholas & Suffolk.
[17] Coal stored at mines when colliery was working.
[18] Includes data for Glendower & Thomaston which are sections of Pine Knot.
[19] Includes 52,230 tons from stripping.
[20] Includes 18,039 tons from stripping.
[21] Includes 41,479 tons from stripping.
[22] Includes 31,499 tons from stripping.
[23] Includes 2,925 tons from stripping.
[24] Includes 134,718 tons from stripping.
[25] Includes 11,374 tons from stripping.
[26] Includes 247,366 tons from stripping.

SULLIVAN COUNTY

Connell Anthracite Mining Co.													
Connell	10	73,047	20,000	5,697	98,744	106	465		9	35	68,475	9,225	3,375
Northern Anthracite Coal Co.													
Murray	10	15,758	4,150	1,191	21,099	126	103	3		5	1,200	4,000	15,000
Grand total		88,805	24,150	6,888	119,843	110	568	3	9	40	69,675	13,225	18,375

SUSQUEHANNA COUNTY

Hillside Coal & Iron Co.													
Forest City	1	87,772	8,812	3,976	100,560	179	337	1	8	131	91,250	60,300	175,525
Hudson Coal Co.													
Clinton	1	73,372	4,973	1,859	80,204	143	159						
Grand total		161,144	13,785	5,835	180,764	167	496	1	8	131	91,250	60,300	175,525

WAYNE COUNTY

Hillside Coal & Iron Co.													
Forest City	1	21,945	2,205	994	25,144	179	80						
Hudson Coal Co.													
Clinton	1	6,383	433	163	6,979	143	153						
Vandling Coal Co.													
Northeast	1	2,705			2,705	61	15				1,250	25	
Grand total		31,033	2,638	1,157	34,828	150	248				1,250	25	
Grand total all counties		58,859,762	5,153,501	2,551,301	66,564,564	219	160,721	447	2,282	19,746	13,100,717	19,320,807	19,225,305

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1927

County	Power Plant												Haulage					
	Boilers				Engines									Locomotives				
	Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage		Number of horses and mules					
	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power		Gasoline	Air	Steam	Electric battery	Electric
Carbon	------	--------	20	4,328	20	3,000	------	--------	4	407	359	27,566	150	------	4	26	8	48
Columbia	------	--------	30	4,550	39	5,166	1	40	4	725	41	3,015	128	1	4	14	5	20
Dauphin	2	150	20	8,340	16	5,218	------	--------	5	8,399	52	11,586	137	------	------	4	------	20
Lackawanna	9	385	295	76,279	574	78,716	2	225	121	61,412	2,525	139,910	1,490	6	------	80	59	792
Luzerne	22	2,319	689	168,079	1,721	279,555	17	622	191	80,037	3,597	195,327	4,169	4	23	249	153	863
Northumberland	2	250	160	28,030	206	38,336	1	30	32	10,186	569	48,279	1,117	1	------	44	26	104
Schuylkill	------	--------	642	107,956	595	124,893	18	130	56	21,109	1,456	118,598	2,411	2	50	225	46	306
Sullivan	------	--------	13	2,380	13	2,020	------	--------	5	930	4	95	20	------	------	------	------	--------
Susquehanna	------	--------	23	3,100	26	2,800	------	--------	5	1,250	75	3,133	24	------	------	3	------	24
Wayne	------	--------	4	1,080	26	1,322	------	--------	3	670	84	4,148	22	------	------	2	3	6
Total	35	3,104	1,896	404,122	3,236	541,026	39	1,047	426	185,125	8,762	551,657	9,668	14	81	647	300	2,183

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928

Operators and collieries	District	Power Supply	Power Plant: Boilers: Cylindrical: Number	Cylindrical: Total horse power	Tubular: Number	Tubular: Total horse power	Engines: Steam engines (all classes): Number	Steam engines: Total horse power	Internal combustion engines (gas): Number	Internal combustion: Total horse power	Electric dynamos (all classes): Number	Electric dynamos: Total kilowatts	Electric motors except haulage: Number	Electric motors: Total horse power	Haulage: Number of horses and mules	Locomotives: Gasoline	Air	Steam	Electric battery	Electric
CARBON COUNTY																				
Coleraine Colliery Co.																				
Coleraine Washery	16	Purchased	1	120									24	1,128	2			1		
Coxe Brothers & Co., Inc.																				
Beaver Meadow	16	Purchased			8	2,000	20	3,000			1	200	10	325	75		4	4		3
Evans Colliery Co.																				
Evans	16	Purchased			2	750					2	100	37	1,714	26					2
Lehigh Coal & Navigation Co.																				
Coaldale [1]	17																			
Lansford	17	Purchased			4	933							154	13,318	15			11	4	21
Nesquehoning	17	"			6	854							110	7,165	12			10	3	18
Total					10	1,787							264	20,483	27			21	7	39
Lehigh Valley Coal Co.																				
Spring Brook	16	Purchased													19				1	
Grand total			1	120	20	4,537	20	3,000			3	300	335	23,650	149		4	26	8	44
[1] See Schuylkill County.																				
COLUMBIA COUNTY																				
Hazle Brook Coal Co.																				
Midvalley	22	Purchased									1	50	10	1,045	9			2	2	
Lehigh Valley Coal Co.																				
Centralia	22	Purchased			6	1,800	19	2,350			4	630	28	2,000	35			3	3	17
Continental Washery	22	"			1	150							8	515						
Total					7	1,950	19	2,350			4	630	36	2,515	35			3	3	17

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant: Boilers: Cylindrical: Number	Cylindrical: Total horse power	Tubular: Number	Tubular: Total horse power	Engines: Steam engines (all classes): Number	Steam engines: Total horse power	Internal combustion engines (gas): Number	Internal combustion: Total horse power	Electric dynamos (all classes): Number	Electric dynamos: Total kilowatts	Electric motors except haulage: Number	Electric motors: Total horse power	Haulage: Number of horses and mules	Locomotives: Gasoline	Air	Steam	Electric battery	Electric
COLUMBIA COUNTY—Cont'd.																				
Phila. & Reading Coal & Iron Co.																				
Potts	22	Purchased	-----	------	16	2,000	10	2,346	-----	-----	------	--------	27	2,061	58	-----	4	1	-----	4
Grand total	-----	----------	-----	------	23	3,950	29	4,696	-----	-----	5	680	73	5,621	102	-----	4	6	5	21
DAUPHIN COUNTY																				
Susquehanna Collieries Co.																				
Short Mountain	25	Purchased	2	150	12	6,600	13	5,098	-----	-----	3	15,400	17	1,975	64	-----	-----	4	-----	7
Williamstown	25	"	-----	------	8	1,740	3	120	-----	-----	3	854	39	10,036	82	-----	-----	-----	-----	13
Grand total	-----	----------	2	150	20	8,340	16	5,218	-----	-----	6	16,254	56	12,011	146	-----	-----	4	-----	20
LACKAWANNA COUNTY																				
Beardslee & Lewis Coal Co.																				
Stone Quarry	1	Purchased	-----	------	1	50	------	--------	----	-----	------	--------	3	100	------	-----	-----	-----	-----	------
Childs Coal Co.																				
No. 1 Mine	2	----------	-----	------	------	--------	-----	--------	-----	-----	------	--------	--------	--------	2	-----	-----	-----	-----	------
D. F. M. Co.																				
No. 1 Mine	2	----------	-----	------	1	25	1	20	-----	-----	------	--------	--------	--------	2	-----	-----	-----	-----	------
Dunmore Anthracite Coal Co.																				
Dunmore	6	Purchased	-----	------	2	350	------	--------	-----	-----	------	--------	7	151	8	-----	-----	-----	-----	------
John Gibbons Coal Co.																				
Gibbons	5	Purchased	-----	------	13	400	------	--------	-----	-----	------	--------	--------	--------	4	-----	-----	4	1	------
Glen Alden Coal Co.																				
Archbald	5	----------	-----	------	4	1,212	5	510	-----	-----	1	500	40	2,334	3	-----	-----	-----	-----	22
Baker	5	----------	-----	------	10	3,130	5	900	-----	-----	1	2,150	198	10,558	7	-----	-----	-----	-----	40
Diamond	3	----------	-----	------	8	2,000	5	1,601	-----	-----	8	1,624	84	5,320	8	-----	-----	-----	-----	35
Hampton Plants	5	----------	-----	------	23	9,599	3	470	-----	-----	6	9,500	32	7,339	------	-----	-----	-----	-----	1
Hyde Park	5	----------	-----	------	------	--------	13	2,190	-----	-----	3	1,000	73	3,716	5	-----	-----	-----	-----	36

Pyne	4				5	1,515	7	1,604			3	900	43	1,660	1						23
Storrs	3				16	3,667	10	2,350			7	4,750	184	10,802	11				1		51
Taylor	4				4	1,212	3	3,000			3	1,000	108	6,392	5						37
Total					70	22,335	51	12,625			32	21,424	762	48,061	35				1		245
Glendale Anthracite Collieries																					
Glendale	1	Purchased									3	280	45	2,580	34			1	2		2
Green Ridge Coal Co.																					
Green Ridge	4	Purchased			1	50							19	379	5	1					3
Grove Hill Coal Co.																					
Lackawanna	6	Purchased											4	125	8						
Hillside Coal & Iron Co.																					
Forest City [1]	1																				
Hudson Coal Co.																					
Clinton [2]	1																				
Coal Brook	2				11	3,972	1	20			5	8,700	173	7,966	24			6			44
Eddy Creek	3						40	3,014					35	3,989	121			4	7		11
Gravity Slope	2				4	1,080	22	1,505			2	600	47	2,651	61			3	5		13
Greenwood	5				5	1,125	18	1,270			1	150	31	2,133	10			1	5		2
Jermyn	2				2	926	1	35			3	850	98	7,213	6						24
Marvine	3				13	3,450	49	5,215			4	1,200	125	8,263	73			4	5		29
Olyphant	6				20	8,790	68	5,384			8	14,800	134	6,726	91			10	7		22
Powderly	2				11	2,025	22	860			2	600	40	3,351	106			5			11
Total					66	21,368	221	17,303			25	26,900	683	42,292	492			33	29		156
Humbert Coal Co.																					
Sunnyside	1	Purchased	1	80									22	949	11			2	4		5
Jermyn & Co.																					
Jermyn	4	Purchased			4	2,100	20	2,267			1	50			32						
Lackawanna Anthracite Mining Co.																					
Richmondale	1	Purchased	1	75									19	692	8			1	3		
Lackawanna Coal Co., Ltd.																					
Lackawanna	6				6	1,350	16	2,050			4	960	71	3,775	18			3			14
Lackawanna Valley Fuel Co.																					
Glenwood Washery	2	Purchased											7	190							
Old Buffalo	1														6	3					
Throop Washery	6	Purchased			1	100							11	365							
Total					1	100							18	555	6	3					
Langcliffe Collieries Inc.																					
Boland	1	Purchased											11	457	10			1			
Tappans	2	"			1	75							8	395	11			3	4		
Total					1	75							19	852	21			4	4		

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines									Locomotives				
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage							
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power	Number of horses and mules	Gasoline	Air	Steam	Electric battery	Electric
LACKAWANNA COUNTY—Cont'd.																				
Lehigh Valley Coal Co.																				
Broadwell	7	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	1	150	16	817	3	-----	-----	-----	-----	3
Lincoln Coal Co.																				
Oak Run	2	Purchased	-----	-----	1	15	-----	-----	-----	-----	-----	-----	14	180	1	-----	-----	-----	2	-----
Meadowside Coal Co.																				
Meadowside	6	Purchased	-----	-----	3	300	2	140	-----	-----	-----	-----	19	425	18	-----	-----	-----	-----	-----
Mid-City Coal Co.																				
Bulls Head	3	Purchased	-----	-----	1	200	-----	-----	-----	-----	1	150	12	815	5	-----	-----	-----	1	4
Mine Run Coal Co.																				
Devil's Eyebrow	1	-----	-----	-----	1	25	1	50	-----	-----	-----	-----	-----	-----	4	-----	-----	-----	-----	-----
Moffat Coal Co.																				
Moffat	5	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	13	-----	-----	2	-----	-----
Murrin Coal Co.																				
Fallbrook	1	Purchased	-----	-----	2	150	1	40	-----	-----	1	12	7	232	12	-----	-----	2	1	-----
Namura Coal Co.																				
Namura	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3	-----	-----	-----	-----	-----
Pennsylvania Coal Co.																				
Erie	2	Purchased	1	80	-----	-----	-----	-----	-----	-----	1	300	-----	-----	24	-----	-----	-----	-----	10
No. 1	6	-----	-----	-----	18	3,200	17	2,090	-----	-----	3	3,000	-----	-----	2	-----	-----	-----	-----	50
No. 5	4	-----	-----	-----	6	950	14	1,225	-----	-----	2	465	63	1,697	24	-----	-----	-----	-----	13
Old Forge	4	-----	-----	-----	30	2,830	16	1,128	-----	-----	5	1,500	85	2,407	2	-----	-----	5	-----	27
Underwood	6	-----	-----	-----	8	3,200	6	2,252	-----	-----	3	2,250	164	6,621	4	-----	-----	-----	-----	60
Total	-----	-----	1	80	62	10,180	53	6,695	-----	-----	14	7,515	312	10,725	56	-----	-----	5	-----	160
Price-Pancoast Coal Co.																				
Pancoast	4	Purchased	-----	-----	6	1,800	6	817	1	200	2	450	89	5,579	27	-----	-----	-----	-----	11
Public Service Coal Co.																				
Marshwood	6	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	680	21	-----	-----	-----	-----	-----

Racket Brook Coal Co.																					
Racket Brook	1	Purchased			1	100			1	25		400	26	1,130	12			2	2	12
Raub Coal Co.																					
Austin Tunnel	7	Purchased											7	220	7						
Roaring Brook Coal Co.																					
Roaring Brook	4	Purchased											4	100	3						
Scranton Coal Co.																					
Capouse	4				4	400	15	1,400			1	200	19	868	44				1	4	
Johnson	6				4	800	5	1,150			1	300	53	4,294	51			2		4	
Mt. Pleasant	4				5	525	12	2,100			1	150	5	100	28				2	1	
Ontario	6				6	1,120	12	1,250			3	365	31	2,072	56			4		5	
Pine Brook	4				7	1,150	14	2,200			5	1,200	35	2,041	104					17	
Raymond	2	Purchased			4	1,125	3	200			1	200	24	883	70			4	1	4	
Richmond No. 3	6	"			4	800	10	720					1	50	20						
Riverside	2	"			7	875	17	1,660			2	50	31	1,436	39				2		
West Ridge	3	"													10						
Total					41	6,795	88	10,680			14	2,465	199	11,744	422			10	6	35	
South Penn Collieries Co.																					
Legitts Creek	3	Purchased			8	2,160	9	1.830			1	300	59	3,290	35				1	9	
Von Storch	3	Purchased			8	1,600	2	85			2	400	134	4,701	58			3		8	
Total					16	3,760	11	1,915			3	700	198	7,991	93			3	1	17	
Spencer Coal Co.																					
Spencer	6	Purchased			1	150							26	687	22						
Sunrise Coal Co.																					
Sunrise Stripping	2		4	400														2			
Temple Coal Co.																					
Northwest	1	Purchased			3	750	12	1,683			1	300	35	1,114				2		3	
Sterrick Creek	2	"			9	1,800	26	2,400			4	800	30	1,260	70			3		15	
Total					12	2,550	38	4,083			5	1,100	65	2,374	70			5		18	
Throop Coal Co.																					
Crippen	6	Purchased											3	35							
West Jermyn Coal Co.																					
West Jermyn	2	Purchased											1	25	4						
Grand total			7	635	313	74,238	509	58,685	2	225	108	62,556	2,688	144,270	1,482	4		79	57	685	

[1] See Susquehanna County.
[2] See Wayne County.

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines													
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage		Locomotives					
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power	Number of horses and mules	Gasoline	Air	Steam	Electric battery	Electric
LUZERNE COUNTY																				
Alden Coal Co.																				
Alden	14	Purchased	-----	------	4	862	1	400	-----	-----	-----	-------	104	5,772	52	-----	-----	3	6	------
Barry Coal Co.																				
Barry Stripping	12	----------	-----	------	------	-------	------	-------	-----	-----	-----	-------	-------	-------	------	-----	-----	2	-----	------
Buck Mountain Coal Mining Co.																				
Gowen	15	Purchased	-----	------	1	60	------	-------	-----	-----	-----	-------	12	1,052	11	-----	-----	1	3	1
Clifford Coal Co.																				
Clifford	7	Purchased	-----	------	1	75	------	-------	-----	-----	-----	-------	-------	-------	------	-----	-----	3	-----	------
John Conlon Coal Co.																				
Conlon	10	Purchased	-----	------	------	-------	------	-------	-----	-----	-----	-------	-------	-------	15	-----	-----	-----	-----	------
Madeira	10	"	-----	------	------	-------	------	-------	-----	-----	-----	-------	-------	-------	16	-----	-----	-----	4	2
Total	-----	----------	-----	------	------	-------	------	-------	-----	-----	-----	-------	-------	-------	31	-----	-----	-----	4	2
Coxe Brothers & Co., Inc.																				
Deringer & Tomhicken	15	Purchased	-----	------	4	260	------	-------	2	12	3	600	58	1,490	58	-----	-----	4	8	8
Drifton	15	"	-----	------	19	4,520	17	1,660	1	10	3	350	-------	-------	65	-----	-----	11	-----	5
Eckley & Buck Mountain	15	----------	-----	------	12	1,700	17	1,700	-----	-----	-----	-------	-------	-------	86	-----	-----	6	-----	------
Total	-----	----------	-----	------	35	6,480	34	3,360	3	22	6	950	58	1,490	209	-----	-----	21	8	13
R. M. Cranston																				
Cranston	8	Purchased	-----	------	2	50	2	35	-----	-----	-----	-------	2	12	------	-----	-----	-----	-----	------
Charles M. Dodson & Co.																				
Beaver Brook	16	Purchased	-----	------	5	500	------	-------	-----	-----	2	115	52	4,460	20	-----	-----	7	2	2
East Alden Mining Co.																				
East Alden	14	Purchased	1	125	------	-------	------	-------	-----	-----	-----	-------	10	500	------	-----	-----	-----	-----	------

East Boston Coal Co.																				
East Boston	10	Purchased			8	1,942	27	1,258			1	60			93					
Fox Hill Mining Co.																				
Fox Hill	10	Purchased											7	128	2					
Glen Alden Coal Co.																				
Auchincloss	14				3	1,440	4	2,600			1	500	28	1,396	3				9	3
Avondale	13		10	1,514			10	2,150			2	4,000	85	6,519	6					12
Bliss	14				5	2,500	8	1,565			5	1,600	89	6,596	19					24
Hallstead	7				1	213					1	200	35	2,782	22					9
Loomis	13				6	1,818	7	4,225			4	1,600	165	9,065				5	11	35
Loomis Power Plant	13				25	9,400	19	42,524			13	31,623	102	5,364						1
Pettebone	10				6	2,808	15	7,118			4	950	80	6,804	3			3	9	21
Truesdale	13				8	2,424	3	3,500			5	2,700	199	17,010	1				5	70
Woodward	12				7	2,907	20	5,887			14	3,783	198	10,558	1				5	48
Total			10	1,514	61	23,510	86	69,569			49	46,956	981	66,094	55			8	39	223
Grand Tunnel Coal Co.																				
West Nanticoke	13	Purchased			1	50							20	1,200	48			1		
Haddock Mining Co.																				
Black Diamond	10	Purchased			3	1,100	4	560			2		47	2,200	32					3
Hanover Coal Co.																				
Cullen Washery	12	Purchased											6	255						
Harris-Denly Coal Co.																				
Kintz	9	Purchased			1	150	1	75					3	205	8					
Hazle Brook Coal Co.																				
Hazle Brook	15	Purchased			8	800	11	610					7	58	1			8		
Upper Lehigh	15	"			3	900							36	2,178	20			7	1	
Total					11	1,700	11	610					43	2,236	21			15	1	
Hillside Coal & Iron Co.																				
Butler	7				19	4,175	20	2,375			9	2,300	114	3,073	3			6		40
Hudson Coal Co.																				
Baltimore No. 5	11	Purchased			26	6,180	77	7,490			7	2,990	147	9,636	68			6	6	15
Laflin	7				6	1,050	16	1,270			1	150	42	2,083	41			1		3
Loree No. 5-Boston	12	Purchased			26	6,840	225	15,552			2	550	80	4,689	240			9	1	14
Pine Ridge	10	"			12	4,398	76	5,455			3	900	165	11,021	149			9	3	26
Total					70	18,468	394	29,767			13	4,590	434	27,429	498			25	10	58
Jeddo-Highland Coal Co.																				
Highland No. 2	15	Purchased			6	3,000	9	1,162			2	300	18	1,014	1			3	1	1
Highland No. 5	15	"			9	2,500	14	2,625			2	300	40	610	22			4		9
Jeddo No. 4	15	"			10	2,800	26	3,201			2	600	50	1,045	10			14		14
Jeddo No. 7	15	"			2	1,000	5	362					4	370	13			3		
Total					27	9,300	54	7,350			6	1,200	112	3,039	46			24	1	24

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines									Locomotives				
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage		Number of horses and mules					
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power		Gasoline	Air	Steam	Electric battery	Electric
LUZERNE COUNTY—Cont'd.																				
John-Ames Coal Co.																				
Franklin Washery	11	Purchased	-----	-----	1	50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Kingston Coal Co.																				
Gaylord	12	Purchased	-----	-----	4	1,200	18	1,600	-----	-----	1	192	18	480	29	-----	-----	-----	-----	2
Kingston No. 2	12	"	-----	-----	6	1,800	17	2,700	-----	-----	-----	-----	-----	-----	21	-----	-----	6	13	6
Kingston No. 4	9	"	-----	-----	12	3,600	37	6,000	-----	-----	7	1,715	19	1,917	61	-----	-----	-----	3	4
Total	----	----------	----	-----	22	6,600	72	10,300	-----	-----	8	1,907	37	2,397	111	-----	-----	6	16	12
Langcliffe Collieries Co.																				
Avoca	7	Purchased	3	375	2	230	4	700	-----	-----	-----	-----	-----	-----	16	-----	-----	-----	2	2
George F. Lee Coal Co.																				
Chauncey	13	Purchased	-----	-----	1	125	-----	-----	-----	-----	-----	-----	51	1,473	9	3	-----	-----	5	-----
Lehigh Coal Co.																				
Hazle Mountain No. 5	15	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3	-----	-----
Lehigh Coal & Navigation Co.																				
Cranberry	16	Purchased	-----	-----	3	1,500	-----	-----	-----	-----	1	300	111	9,411	38	-----	-----	16	10	14
Lehigh Valley Coal Co.																				
Dorrance	11	Purchased	-----	-----	6	1,804	15	5,200	-----	-----	-----	-----	10	1,117	50	-----	-----	2	2	23
Exeter	9	"	-----	-----	7	2,752	30	2,100	-----	-----	3	400	32	658	94	-----	-----	3	5	10
Franklin	11	"	-----	-----	3	2,112	38	2,510	1	20	-----	-----	12	490	77	-----	-----	3	4	-----
Hazleton No. 1	15	"	-----	-----	8	2,000	12	1,510	-----	-----	2	300	-----	-----	29	-----	-----	2	-----	5
Hazleton Shaft & Stockton	15	"	-----	-----	8	3,050	25	3,250	-----	-----	3	550	-----	-----	25	-----	-----	3	-----	15
Heidelberg	7	"	-----	-----	13	1,950	21	1,722	-----	-----	-----	-----	25	1,403	41	-----	-----	1	-----	-----
Maltby	9	----------	-----	-----	6	1,800	19	1,755	-----	-----	3	298	33	825	84	-----	-----	-----	4	6
Mineral Spring	10	Purchased	-----	-----	4	1,000	20	2,435	-----	-----	-----	-----	9	610	53	-----	-----	2	5	-----
Prospect	9	"	-----	-----	10	2,700	46	5,580	-----	-----	2	300	9	835	78	-----	-----	2	-----	10
Prospect (Henry)	10	"	-----	-----	8	2,050	29	4,050	-----	-----	-----	-----	7	495	90	-----	-----	7	3	11
Seneca	7	"	-----	-----	6	3,006	23	2,090	-----	-----	3	525	35	140	23	-----	-----	5	-----	13

Spring Mountain	16				9	2,700	12	1,400			2	400			24			2		
Warrior Run	13				10	1,500	11	1,100							12					
Westmoreland	9	Purchased			4	1,100	16	2,528			2	400	32	638	29					10
William A.	7	"									1	200	36	1,879	48					5
Total					102	29,524	317	37,230	1	20	21	3,373	240	9,090	757			32	23	108
Lehigh & Wilkes-Barre Coal Co.																				
Buttonwood No. 22	13	Purchased			16	3,546	68	9,592					12	1,287	115					15
Hollenback No. 2	11				8	2,000	53	6,783			1	500	1	250	104		1	1		1
Lance No. 11	12	Purchased			8	2,000	47	5,768					9	1,250	132					13
Maxwell No. 20	13	"			11	2,720	55	9,066			1	35	4	2	159			1	2	10
Nottingham No. 15	12	"			10	2,500	52	6,733			1	50	23	2,221	114		3	1	1	8
So. Wilkes-Barre No. 5	11	"			12	2,500	53	8,926					7	95	135		9			
Stanton No. 7	11	"			16	2,968	68	7,974					17	1,437	171			4		10
Sugar Notch No. 9	13	"			8	2,000	40	4,148			1	300	9	372	85			1		10
Wanamie No. 18	14	"			12	2,628	50	5,761					12	1,186	117			4		17
Total					104	22,862	486	64,751			4	885	94	8,100	1,132		13	12	3	84
Lehigh-Wyoming Valley Coal Co.																				
Florence	7	Purchased	1	250									1	10	5				1	
Lynott & Brown																				
Stripping	8	Purchased													1					
Miners Mills Coal Mining Co.																				
Miners Mills	10	Purchased											15	555	14					
Mt. Lookout Coal Co.																				
Mt. Lookout	9	Purchased			6	1,200	23	2,350			2	500	40	922	10			1		12
Nanticoke Valley Coal Co.																				
Nanticoke Washery	14	Purchased											14	790						
Pardee Brothers & Co., Inc.																				
Beaver Brook	16	Purchased			1	100					2	115	42	3,294	18			4	2	2
Lattimer	15	"			12	3,720	17	1,680					25	1,551	62			10		3
Total					13	3,820	17	1,680			2	115	67	4,845	80			14	2	5
Pennsylvania Coal Co.																				
Central	7	Purchased			4	2,000	14	1,355			1	300	33	1,431	18					15
Ewen	8	"			17	4,165	20	2,170			4	2,300	141	4,694	35		3			34
No. 6	8	"			52	3,300	38	1,158			2	2,000	96	2,559	120			1		25
No. 9	8	"			12	3,744	27	6,041			3	670	138	3,648	36			6		57
No. 14	8	"			23	4,500	26	6,200			6	1,335	189	5,611	48					44
Total					88	17,709	125	16,924			16	6,605	597	17,943	257		3	7		175
Pittston Coal Mining Co.																				
Hadleigh	13				4	1,300	9	611			3	363	29	1,196	9			2		4

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines								Locomotives					
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage							
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power	Number of horses and mules	Gasoline	Air	Steam	Electric battery	Electric
LUZERNE COUNTY—Cont'd.																				
Plymouth Red Ash Coal Co.																				
Red Ash	12	Purchased	-----	-----	1	100	-----	-----	-----	-----	-----	-----	3	145	2	-----	-----	-----	-----	-----
T. F. Quinn Coal Co.																				
Consolidated	7	Purchased	-----	-----	4	500	1	50	-----	-----	-----	-----	7	250	9	-----	-----	1	-----	-----
Raub Coal Co.																				
Louise	10	Purchased	-----	-----	2	600	-----	-----	-----	-----	3	20	30	1,195	21	-----	-----	1	2	-----
Sandy Run Coal Co.																				
Sandy Run	15	Purchased	-----	-----	1	60	-----	-----	-----	-----	-----	-----	30	1,376	24	-----	-----	1	-----	-----
Scranton Anthracite Coal Co.																				
Barnum	7	Purchased	-----	-----	1	125	-----	-----	-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----	-----
Pickaway	7	"	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1
Total	-----	-----	-----	-----	1	125	-----	-----	-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----	1
E. S. Stackhouse Coal Co.																				
Salem	14	Purchased	-----	-----	1	150	-----	-----	-----	-----	2	450	16	1,060	-----	-----	-----	-----	-----	5
Sullivan & Flynn Coal Co.																				
Sullivan & Flynn	11	Purchased	-----	-----	1	50	-----	-----	-----	-----	-----	-----	12	565	2	-----	-----	-----	-----	-----
Suscon Coal Co.																				
Suscon	9	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3	75	3	-----	-----	-----	-----	-----
Susquehanna Collieries Co.																				
No. 6	14	-----	-----	-----	2	500	1	20	-----	-----	-----	-----	129	12,401	46	-----	-----	8	4	25
No. 7	14	-----	-----	-----	20	5,000	24	3,500	5	100	2	6,400	93	5,401	103	-----	9	11	6	32
Total	-----	-----	-----	-----	22	5,500	25	3,520	5	100	2	6,400	222	17,802	149	-----	9	19	10	57
Temple Coal Co.																				
Harry E.	9	Purchased	-----	-----	14	3,600	30	3,550	-----	-----	2	500	53	2,510	124	-----	-----	2	-----	5
Terry Coal Co.																				
Black Creek Washery	13	Purchased	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5	200	-----	-----	-----	-----	-----	-----

Troy Coal Co.																				
Troy	9	Purchased	1	20										375	4					
West End Coal Co.																				
West End	14	Purchased			2	600					4	1,100	127	6,440	4			6	2	30
Wolf Collieries Co., Inc.																				
Wolf Mines	15	Purchased											8	500	4					
Yatesville Coal Co.																				
Yatesville	9	Purchased											9	235	18					
Grand total			16	2,284	643	164,627	1,743	257,028	9	142	158	78,689	3,839	208,605	3,934	3	25	239	150	880
NORTHUMBERLAND COUNTY																				
Colonial Colliery Co.																				
Colonial	23	Purchased			3	375							105	8,512	75			3	11	13
Excelsior Coal Co.																				
Corbin	24				2	600	8	325							45			4		
Lehigh Valley Coal Co.																				
Sayre	22	Purchased			7	2,100	19	4,700			6	715	57	2,280	28			5	2	12
Northumberland Mining Co.																				
Enterprise	24	Purchased			1	500	1	75			1	200	47	3,230	50			2	2	9
Phila. & Reading Coal & Iron Co.																				
Alaska	23				12	2,200	7	1,305							53			2		4
Bear Valley	24	Purchased			17	2,125	12	3,861			3	1,180	43	2,969	40				3	10
Burnside	24	"			20	2,500	12	2,796					25	1,862	79					7
Henry Clay	24	"			14	1,750	10	2,107					24	2,688	69			4		1
Locust Spring	23				15	4,075	22	7,585			4	4,780			106			7		7
North Franklin	24	Purchased			14	1,750	13	2,875			3	815	26	1,094	31					9
Reliance	23				14	1,750	9	2,056							53			1		4
Total					106	16,150	85	22,585			10	6,775	118	8,613	431			14	3	42
Shamokin Coal Co.																				
Neilson	24	Purchased			1	250							52	3,818	13			3		
Shamokin Colliery Co.																				
Washery	23	Purchased			3	450	1	100					16	975						
South Penn Collieries Co.																				
Katherine	24				3	900	5	400							11	1				
Stevens Chapin Coal Co.																				
Washery	23	Purchased			2	400	1	150					8	450						
Susquehanna Collieries Co.																				
Cameron	24	Purchased			2	500	3	110			3	312	46	5,941	62			1		6
Luke Fidler	24	"			2	500	5	217			5	614	42	5,068	67			3		4
Pennsylvania	23	"	1	100	1	300					3	1,195	50	6,407	69			4		11
Richards	23	"	1	150	3	650					2	555	57	5,658	84			4		7
Scott	23				8	2,000	46	5,289			4	1,420	29	2,635	60			1		7
Total			2	250	16	3,950	54	5,616			17	4,096	224	25,709	342			13		35
Grand total			2	250	144	25,675	174	33,951			34	11,786	607	53,587	995	1		44	18	111

Table 4—Showing source of power, number and kinds of b oilers, engines, locomotives, and electrical equipment in use, 1928—Continued

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines									Locomotives				
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage							
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power	Number of horses and mules	Gasoline	Air	Steam	Electric battery	Electric
SCHUYLKILL COUNTY																				
Black Heath Coal Co.																				
Black Heath	19		-----	-----	1	120	2	80	-----	-----	-----	-----	-----	-----	4	-----	-----	-----	-----	-----
Buck Run Coal Co.																				
Buck Run	19	Purchased	-----	-----	3	900	1	20	-----	-----	3	400	81	6,343	40	-----	-----	2	-----	12
Chestnut Hill Coal Co.																				
Chestnut Hill	18	Purchased	1	30	-----	-----	-----	-----	-----	-----	-----	-----	10	235	2	-----	-----	-----	-----	-----
Coxe Brothers & Co., Inc.																				
Oneida	16	Purchased	-----	-----	7	1,830	16	1,300	16	80	-----	-----	5	235	90	-----	4	4	-----	-----
East Bear Ridge Colliery Co.																				
East Bear Ridge	22	Purchased	-----	-----	3	550	1	50	-----	-----	1	100	20	2,540	14	-----	-----	-----	-----	6
Frackville Coal Co.																				
Lucanna	18	Purchased	-----	-----	1	150	-----	-----	-----	-----	-----	-----	7	328	7	1	-----	2	1	-----
Gorman & Campion Coal Co.																				
Bell	18	Purchased	-----	-----	1	75	-----	-----	1	25	-----	-----	8	575	4	1	-----	-----	3	-----
Haddock Mining Co.																				
Candlemas	16	Purchased	-----	-----	2	300	-----	-----	-----	-----	1	300	101	5,496	52	-----	-----	11	-----	2
Salem Hill	18	"	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	5	250	-----	-----	-----	-----	1	-----
Total	-----	-----	-----	-----	2	300	-----	-----	-----	-----	1	300	106	5,746	52	-----	-----	11	1	2
Harleigh-Brookwood Coal Co.																				
Lawrence	22	Purchased	-----	-----	2	700	-----	-----	-----	-----	-----	-----	49	5,746	29	-----	-----	2	4	6
Thomas	21	"	-----	-----	2	250	-----	-----	-----	-----	-----	-----	38	2,989	23	-----	-----	2	4	-----
Total	-----	-----	-----	-----	4	950	-----	-----	-----	-----	-----	-----	87	8,735	52	-----	-----	4	8	6

Hazle Brook Coal Co.																				
Girard	22	Purchased			5	2,250	6	850					10	1,312	2			1	2	3
Maryd	18	"			12	2,100	18	2,800							16			2	4	
Raven Run	21	"			1	250	4	122			3	209	63	3,696	7			9		4
Westwood	25	"			1	300	11	75					40	3,053	1			1	3	
Total					19	4,900	39	3,847			3	209	113	8,061	26			13	9	7
Laurel Coal Mining Co.																				
Bickle	22	Purchased			1	90							10	700	8					
Lehigh Coal & Navigation Co.																				
Alliance	18	Purchased			4	400					1	300	69	6,080	17			5		8
Coaldale	17	"			8	2,994	3	2,230					71	7,262	15			5	5	19
Greenwood	17	"			3	1,800	1	100					54	8,157	10			4	3	11
Rahn	17	"	3	60	2	200							65	6,236	11			5	2	12
Tamaqua	18	"			2	900					1	300	85	9,913	9			2	5	10
Total			3	60	19	6,294	4	2,330			2	600	344	37,648	62			21	15	60
Lehigh Valley Coal Co.																				
Buck Mountain	18	Purchased			7	2,100	24	3,520			2	1,800	9	2,052	95		6	5		2
Packer No. 2	21	"									2	400	3	865						10
Packer No. 3	21	"					3	540							13					2
Packer No. 4	21	"			12	3,000	20	2,460			1	200						2		7
Packer No. 5	21	"			4	2,000	20	2,600			2	450	4	695	5			2		11
Park	20	"			17	4,360	62	11,225			3	425	34	2,418	92			5		8
Springdale Washery	20	"			1	150							12	832				1		
Total					41	11,610	129	20,345			10	3,275	62	6,862	205		6	15		40
Lehigh & Wilkes-Barre Coal Co.																				
Audenried No. 4	16	Purchased			24	2,575	26	3,300			2	510			71			4		3
Honey Brook	16	"			15	2,125	20	2,615							49			4		2
Total					39	4,700	46	5,915			2	510			120			8		5
Locust Mountain Coal Co.																				
Weston	21	Purchased			2	640					3	500	55	1,601				31	1	7
Lytle Coal Co.																				
Lytle	19	Purchased			22	3,300	10	3,900			3	1,750	77	3,956	54			2		5
Mill Creek Coal Co.																				
Morea	18	Purchased			2	440					3	500	60	7,789	48			2	2	9
Phila. & Reading Coal & Iron Co.																				
Bancroft	22	Purchased			6	750	2	300			1	35	11	710	15			6		
Bast	22	"			20	2,500	11	3,510			2	800	25	3,560	34		3	5		4
Brookside	25				25	3,125	11	4,795							58		4	8		7
Eagle Hill	18	Purchased			6	1,620	8	2,497			1	400	7	900	51			3		5
Ellangowan	20	"			32	4,000	16	3,500							84		4	2		6

Table 4—Showing source of power, number and kinds of boilers, engines, locomotives, and electrical equipment in use, 1928—Concluded

Operators and collieries	District	Power Supply	Power Plant												Haulage					
			Boilers				Engines								Number of horses and mules	Locomotives				
			Cylindrical		Tubular		Steam engines (all classes)		Internal combustion engines (gas)		Electric dynamos (all classes)		Electric motors except haulage			Gasoline	Air	Steam	Electric battery	Electric
			Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total horse power	Number	Total kilowatts	Number	Total horse power						
SCHUYLKILL COUNTY—Cont'd.																				
Phila. & Reading Coal & Iron Co.—Cont'd.																				
Gilberton	22	Purchased	-----	-----	13	1,625	14	4,995	-----	-----	-----	-----	53	4,735	49	-----	-----	5	-----	1
Good Spring	25	-----	-----	-----	16	3,980	13	2,550	-----	-----	4	8,000	-----	-----	83	-----	-----	3	-----	7
Hammond	21	Purchased	-----	-----	20	2,500	16	2,825	-----	-----	1	200	14	539	18	-----	8	2	-----	3
Lincoln	25	-----	-----	-----	20	2,500	12	4,215	-----	-----	2	350	-----	-----	69	-----	-----	-----	-----	13
Mahanoy City	20	Purchased	-----	-----	18	2,250	12	1,840	-----	-----	-----	-----	-----	-----	54	-----	-----	-----	-----	5
Maple Hill	20	"	-----	-----	40	5,000	33	8,530	-----	-----	1	200	-----	-----	74	-----	9	2	-----	5
Middle Creek	25	-----	-----	-----	5	625	1	425	-----	-----	2	-----	-----	-----	-----	-----	-----	3	-----	3
North Mahanoy	20	Purchased	-----	-----	18	2,250	13	2,325	-----	-----	2	800	-----	-----	52	-----	-----	2	-----	6
Otto	19	"	-----	-----	7	1,750	16	2,115	-----	-----	1	300	38	3,470	77	-----	-----	1	-----	6
Pine Forest Washery	18	-----	-----	-----	4	500	2	540	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pine Knot	19	Purchased	-----	-----	23	4,605	23	7,386	-----	-----	2	780	47	2,687	108	-----	-----	13	2	5
Reevesdale	18	"	-----	-----	6	750	4	695	-----	-----	2	355	4	600	10	-----	-----	4	-----	3
Shenandoah City	21	-----	-----	-----	25	3,100	17	3,185	-----	-----	1	300	20	901	69	-----	5	2	-----	4
Silver Creek	18	Purchased	-----	-----	18	2,250	11	3,710	-----	-----	2	500	4	400	37	-----	-----	1	-----	12
Tunnel Ridge	20	"	-----	-----	26	3,250	17	3,145	-----	-----	-----	-----	-----	-----	49	-----	2	-----	-----	7
Wadesville	18	"	-----	-----	19	2,700	18	4,962	-----	-----	1	200	6	900	76	-----	3	3	1	5
West Shenandoah	21	-----	-----	-----	16	2,350	16	3,465	-----	-----	2	500	43	2,290	62	-----	-----	2	-----	6
Total	-----	-----	-----	-----	383	53,980	286	71,510	-----	-----	27	13,720	272	21,692	1,129	-----	38	67	3	113
Pine Hill Coal Co.																				
Oak Hill	19	Purchased	-----	-----	2	1,000	-----	-----	-----	-----	2	400	64	5,932	60	-----	-----	4	1	5
Pine Hill	19	"	-----	-----	4	3,000	-----	-----	-----	-----	3	600	49	6,407	58	-----	-----	1	1	8
Total	-----	-----	-----	-----	6	4,000	-----	-----	-----	-----	5	1,000	113	12,339	118	-----	-----	5	2	13

Repplier Coal Co.																			
New Castle	19	Purchased	-----	------	2	200	------	-------	-----	-----	2	480	84	5,762	17	-----	-----	-----	-----	10
Saint Clair Coal Co.																			
Saint Clair	18	Purchased	-----	------	5	675	3	850	1	5	2	1,000	67	5,355	24	-----	-----	15	4	8
Sherman Coal Corp.																			
Sherman	19	Purchased	-----	------	1	117	------	-------	-----	-----	------	--------	42	934	23	-----	-----	1	-----	2
South Penn Collieries Co.																			
Randolph	18	Purchased	-----	------	1	210	------	-------	-----	-----	1	30	33	1,440	6	-----	-----	-----	3	------
Susquehanna Collieries Co.																			
Wm. Penn	21	Purchased	-----	------	15	2,300	16	1,850	-----	-----	2	300	13	480	79	-----	-----	1	-----	------
Grand total	-----	----------	4	90	580	98,331	553	111,997	18	110	70	24,674	1,669	139,356	2,184	2	48	204	52	305
SULLIVAN COUNTY																			
Connell Anthracite Mining Co.																			
Connell	10	----------	-----	------	7	1,900	7	1,450	-----	-----	4	730	14	225	7	-----	-----	-----	-----	14
Northern Anthracite Coal Co.																			
Murray	10	----------	-----	------	6	600	8	560	-----	-----	1	200	1	50	19	-----	-----	-----	-----	------
Grand total	-----	----------	-----	------	13	2,500	15	2,010	-----	-----	5	930	15	275	26	-----	-----	-----	-----	14
SUSQUEHANNA COUNTY																			
Hillside Coal & Iron Co.																			
Forest City	1	Purchased	-----	------	23	3,000	24	2,200	-----	-----	4	500	75	2,833	17	-----	-----	3	-----	20
Hudson Coal Co.																			
Clinton[1]	1	----------	-----	------	------	--------	------	--------	-----	-----	------	--------	--------	--------	------	-----	-----	-----	-----	------
WAYNE COUNTY																			
Hillside Coal & Iron Co.																			
Forest City[2]	1	----------	-----	------	------	--------	------	--------	-----	-----	------	--------	--------	--------	------	-----	-----	-----	-----	------
Hudson Coal Co.																			
Clinton	1	----------	-----	------	4	1,080	24	1,280	-----	-----	3	370	78	3,930	16	1	-----	2	3	6
Vandling Coal Co.																			
Northeast	1	Purchased	-----	------	------	--------	------	--------	-----	-----	------	--------	1	50	2	-----	-----	-----	-----	------
Grand total	-----	----------	-----	------	4	1,080	24	1,280	-----	-----	3	370	79	3,980	18	1	-----	2	3	6
Grand total all counties	-----	----------	32	3,529	1,783	386,278	3,107	480,065	29	477	396	196,739	9,431	594,188	9,053	11	81	607	293	2,106

[1] See Wayne County.
[2] See Susquehanna County.

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928

Operators and collieries	District	Ventilation: Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Pumps: Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Approximate number of gallons per minute
CARBON COUNTY												
Coleraine Colliery Co.												
Coleraine Washery	16								2	1,500	2	1,075
Coxe Brothers & Co., Inc.												
Beaver Meadow	16	Clark	Disc	20	90	1.1	Steam	78,272	1	1,800	1	1,800
Evans Colliery Co.												
Evans	16	Vulcan	Centrifugal	6	260	2.5	Electricity	50,000	10	8,450	6	6,000
Lehigh Coal & Navigation Co.												
Coaldale	17	Jeffrey	Centrifugal	10	191	3.25	Electricity	230,000	10	10,000	3	4,500
Lansford	17	Sirocco	"	10	180	3.56	"	148,000	11	27,500	7	16,500
		Sirocco	"	10	205	2.80	"	62,000				
		Jeffrey	"	12	141	1.	"	262,000				
		American	"	9	169	2.5	"	170,129				
		Jeffrey	"	10	183	2.25	"	140,250				
Nesquehoning	17	Jeffrey	"	10	195	3.75	"	240,000	4	9,750		
		Jeffrey	"	8	195	2.	"	75,000				
		Connellsville	"	11	152	2.75	"	160,000				
Total									25	47,250	10	21,000
Lehigh Valley Coal Co.												
Spring Brook	16	Vulcan	Disc	7	160	.3	Electricity	32,645	5	2,650	1	750
Grand total									42	61,650	20	30,625

COLUMBIA COUNTY												
Hazle Brook Coal Co.												
Midvalley	22	Sirocco	Disc	8	167	1.	Electricity	75,000	2	3,000	2	3,000
Lehigh Valley Coal Co.												
Centralia	22	Jeffrey	Centrifugal	7	148	2.	Electricity	98,400	4	4,000	2	3,000
		Guibal	Disc	10	192	.5	"	55,739				
		Jeffrey	Centrifugal	7	315	1.	"	29,670				
		Guibal	"	12	100	.5	"	53,812				
Phila. & Reading Coal & Iron Co.												
Potts	22	Guibal	Centrifugal	21	80	1.6	Steam	107,000	6	8,989	4	2,083
		Guibal	"	21	80	1.6	"	55,000				
		Jeffrey	"	6	190	.4	Electricity	68,000				
		Jeffrey	"	6	190	1.	"	55,000				
Grand total									12	15,989	8	8,083
DAUPHIN COUNTY												
Susquehanna Collieries Co.												
Short Mountain	25	Vulcan	Centrifugal	14	134	2.	Steam	130,740	32	20,448	8	7,025
		Sturtevant	"	6	270	1.2	Electricity	58,430				
		Sturtevant	"	5	240	1.3	"	16,650				
		Sturtevant	"	5	260	1.4	"	16,690				
Williamstown	25	Sturtevant	"	10	180	2.3	"	28,920	21	20,867	5	9,215
		Vulcan	"	10	150	.8	"	52,526				
		Vulcan	"	12	147	2.5	"	90,000				
		Sturtevant	"	9	185	1.9	"	47,000				
		Jeffrey	"	5	188	.6	"	17,260				
		Champion	"	2	100	.2	"	3,862				
		Jeffrey	"	5	264	.2	"	86,000				
		Stine	"	5	200	1.25	"	8,000				
		Buffalo	"	6	270	1.6	"	7,680				
Grand total									53	41,315	13	16,240
LACKAWANNA COUNTY												
Beardslee & Lewis Coal Co.												
Stone Quarry	1								4	450	2	350
Childs Coal Co.												
No. 1 Mine	2						Natural	5,000				
D. F. M. Co.												
No. 1 Mine	2						Natural	8,000				
Dunmore Anthracite Coal Co.												
Dunmore	6						Natural		1	350		

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface	
											Number	Approximate number of gallons per minute
LACKAWANNA COUNTY—Cont'd.												
John Gibbons Coal Co.												
Gibbons	5	----------	----------	-------	-------	-------	Natural	----------	2	660	1	150
Glen Alden Coal Co.												
Archbald	5	Jeffrey	Disc	12	120	2.3	Electricity	222,500	8	6,000	------	----------
Baker	5	Vulcan	Centrifugal	16	80	1.5	"	336,138	31	17,850	3	6,000
		Jeffrey	"	18	85	2.	"	----------	------	----------	------	----------
		Danville	"	14	76	1.	"	----------	------	----------	------	----------
Diamond	3	Jeffrey	"	15	90	1.3	Steam	128,390	19	21,850	6	13,800
		Jeffrey	"	15	90	1.6	"	189,000	------	----------	------	----------
Hampton Plants	5	Connellsville	"	14	150	3.5	Electricity	400,000	11	22,000	5	4,500
		Connellsville	"	14	150	3.5	Steam	400,000	------	----------	------	----------
Hyde Park	5	Guibal	"	25	63	1.	"	91,800	28	28,450	------	----------
		Guibal	"	14	119	.9	Electricity	84,000	------	----------	------	----------
		Guibal	"	25	72	1.5	"	101,000	------	----------	------	----------
		Guibal	"	24	70	2.	Steam	85,000	------	----------	------	----------
		Guibal	"	24	60	2.	"	100,120	------	----------	------	----------
Pyne	4	Guibal	"	24	72	2.1	"	205,400	26	13,050	2	2,800
Storrs	6	Finch	"	25	76	2.6	"	200,000	20	20,700	3	10,500
		Vulcan	"	12	123	2.2	Electricity	150,000	------	----------	------	----------
		Jeffrey	"	15	90	1.2	Steam	181,630	------	----------	------	----------
		Guibal	"	25	84	2.4	"	180,000	------	----------	------	----------
		Jeffrey	Disc	18	84	2.	Electricity	173,000	------	----------	------	----------
Taylor	4	Jeffrey	Centrifugal	17	90	1.8	"	300,000	24	24,900	5	16,800
		Guibal	"	25	60	1.3	Steam	144,000	------	----------	------	----------
Total	-------	----------	----------	-------	-------	-------	----------	----------	167	154,800	24	54,400

Glendale Anthracite Collieries												
Glendale	1	Guibal	Centrifugal	14	118	1.5	Electricity	85,000	14	8,050	3	5,200
		Guibal	"	16	100	2.	"	70,000				
Green Ridge Coal Co.												
Green Ridge	4	Jeffrey	Disc	6	250	.9	Electricity	19,200	1	75		
Grove Hill Coal Co.												
Lackawanna	6						Natural	11,500				
Hillside Coal & Iron Co.												
Forest City[1]	1											
Hudson Coal Co.												
Clinton[2]	1											
Coal Brook	2	Sturtevant	Centrifugal	6	110	.8	Electricity	16,870	59	20,945	5	3,360
		Jeffrey	"	14	120	2.	"	198,060				
		Guibal	"	20	95	1.8	"	144,500				
		Guibal	"	17	100	1.4	"	67,700				
Eddy Creek	3	Allis Chalmers	"	28	75	3.9	Steam	244,330	32	25,790	8	4,988
		Vulcan	"	14	122	2.2	"	103,030				
		Guibal	"	22	95	2.2	"	148,700				
		Jeffrey	"	14	110	2.8	Electricity	136,985				
Gravity Slope	2	Guibal	"	20	88	1.2	"	135,450	20	11,630	2	2,160
		Guibal	"	17	117	1.5	"	88,500				
Greenwood	5	Vulcan	"	10	98	.9	"	43,900	30	27,335	4	2,725
		Guibal	"	17	75	.5	"	14,420				
Jermyn	2	Guibal	"	17	91	1.	"	68,534	27	37,740	9	7,580
		Guibal	"	21	92	1.8	"	128,095				
Marvine	3	Guibal	"	25	75	.8	Steam	82,010	63	36,535	3	3,161
		Guibal	"	25	65	2.5	"	89,540				
		Guibal	"	22	79	1.8	"	194,475				
		Guibal	"	22	75	2.	"	99,740				
		Guibal	"	20	88	2.4	Electricity	159,970				
		Guibal	"	20	88	1.7	"	142,685				
Olyphant	6	Guibal	"	20	90	2.4	Steam	96,340	64	31,175	5	712
		Jeffrey	"	20	85	3.3	"	257,800				
		Guibal	"	28	66	3.1	"	231,345				
Powderly	2	Buffalo	"	7	200	1.2	"	8,079	20	24,235	8	5,223
		Buffalo	"	10	160	1.6	Electricity	91,050				
		Vulcan	"	10	108	1.6	"	54,590				
Total									315	215,385	44	29,909
Humbert Coal Co.												
Sunnyside	1	Guibal	Centrifugal	6	260	.5	Electricity	22,000	4	1,500	1	500
Jermyn & Co.												
Jermyn	4	Guibal	Centrifugal	14	90	1.1	Steam	72,300	17	11,000	2	5,400
		Guibal	"	18	55	1.	Electricity	65,000				
		Guibal	"	18	60	1.1	"	75,000				
Lackawanna Anthracite Mining Co.												
Richmondale	1						Natural					

Table 5—Operators and mines, type and size of fans, volum e of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LACKAWANNA COUNTY—Cont'd.												
Lackawanna Coal Co., Ltd.												
Lackawanna	6	Guibal	Centrifugal	20	80	1.6	Steam	81,300	11	13,000	7	11,000
		Guibal	"	20	80	2.3	"	57,500				
Lackawanna Valley Fuel Co.												
Glenwood Washery	2								1	600		
Old Buffalo	1						Natural					
Langcliffe Collieries Inc.												
Boland	1	Cross	Centrifugal	5	387	1.	Electricity	52,000	6	1,650	1	800
Tappans	2	Stine	"	6	275	1.5	"	25,000	17	1,500		
		Stine	"	5	475	1.5	"	26,000				
Total									23	3,150	1	800
Lehigh Valley Coal Co.												
Broadwell	7	Jeffrey	Disc	8	100	1.2	Electricity	55,900	6	1,000	3	600
Lincoln Coal Co.												
Oak Run	2	Jeffrey	Centrifugal	5	450	.5	Electricity	18,000	3	200		
Meadowside Coal Co.												
Meadowside	6						Natural					
Mid-City Coal Co.												
Bulls Head	3						Natural					
Mine Run Coal Co.												
Devil's Eyebrow	1						Natural					
Moffat Coal Co.												
Moffat	5						Natural					
Murrin Coal Co.												
Fallbrook	1						Natural					

Namura Coal Co.												
Namura	5						Natural					
Pennsylvania Coal Co.												
Erie	2	Gulbal	Centrifugal	18	75	1.	Electricity	50,200	3	2,700	1	2,500
		Gulbal	"	5	400	.4	"	26,300				
No. 1	6	Gulbal	"	10	130	1.2	"	90,350	21	6,560	1	800
		Gulbal	"	20	70	1.3	"	42,620				
		Gulbal	"	10	135	2.3	"	74,500				
		Gulbal	"	18	72	1.2	Steam	32,120				
No. 5	4	Gulbal	"	20	70	1.5	"	80,500	16	4,435	2	1,300
		Gulbal	"	10	130	1.2	Electricity	19,650				
Old Forge	4	Gulbal	"	20	52	.7	Steam	94,600	36	22,175	6	11,300
		Gulbal	"	20	55	1.	Electricity	99,700				
		Gulbal	"	14	64	1.5	"	32,325				
		Gulbal	"	20	70	1.5	"	100,500				
		Gulbal	"	8	149	.75	"	31,000				
Underwood	6	Gulbal	"	10	135	2.3	"	105,000	34	14,118	3	2,743
		Gulbal	"	14	100	1.5	Steam	277,930				
		Gulbal	"	10	148	2.5	"	144,900				
Total									110	49,988	13	18,643
Price-Pancoast Coal Co.												
Pancoast	4	Jeffrey	Centrifugal	14	126	3.3	Electricity	228,350	28	24,700	7	10,850
		Jeffrey	Disc	20	90	3.4	Steam	Emergency				
		Gulbal	Centrifugal	14	70	1.1	Electricity	50,000				
		Jeffrey	"	8	152	1.7	"	99,500				
Public Service Coal Co.												
Marshwood	6						Natural					
Racket Brook Coal Co.												
Racket Brook	1	Jeffrey	Disc	10	170	1.25	Electricity	100,000	10	2,000	2	1,000
		Jeffrey	"	6	180	.5	"	60,000				
Raub Coal Co.												
Austin Tunnel	7						Natural	23,000	1	500		
Roaring Brook Coal Co.												
Roaring Brook	4						Natural	27,000				
Scranton Coal Co.												
Capouse	4	Gulbal	Centrifugal	20	80	1.2	Steam	102,640	12	6,000	2	2,400
		Robinson	Disc	5	274	1.3	Electricity	32,850				
Johnson	6	Gulbal	Centrifugal	30	55	1.5	Steam					
Mt. Pleasant	4	Gulbal	"	20	52	1.1	"	142,680	10	3,960	2	500
Ontario	6	Gulbal	"	20	87	1.	"	88,240	13	8,400	3	4,700
		Gulbal	"	14	90	1.	Electricity	68,480				
		Robinson	Disc	5	264	.9	"	42,800				
Pine Brook	4	Gulbal	Centrifugal	17	104	2.3	Steam	232,480	18	7,600	2	5,000
Raymond	2	Gulbal	"	18	80	1.	"	89,400	14	6,456	2	1,900
		Gulbal	"	14	85	1.	Electricity	86,300				
Richmond No. 3	6	Gulbal	"	30	36	.9	Steam	30,480	2	1,200	2	600

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LACKAWANNA COUNTY—Cont'd.												
Scranton Coal Co.—Cont'd.												
Riverside	2	Guibal	Centrifugal	20	87	1.5	Steam	90,200	18	10,400	4	5,100
		Robinson	Disc	5	275	.9	Electricity	31,000				
West Ridge	3						Natural					
Total									87	44,016	17	20,200
South Penn Collieries Co.												
Legitts Creek	3	Guibal	Centrifugal	20	80	2.	Steam	125,000	13	21,700	6	14,750
		Guibal	"	22	72	1.8	"	181,000				
Spencer Coal Co.												
Spencer	6						Natural	38,000	3	1,000	1	50
Temple Coal Co.												
Northwest	1	Guibal	Centrifugal	16	70	.3	Steam	29,100	9	2,200	3	1,300
Sterrick Creek	2	Guibal	"	20	75	.6	"	160,100	23	17,040	4	6,200
		Guibal	"	25	65	.4	"	109,100				
		Guibal	"	10	175	.3	"	27,900				
Total									32	19,240	7	7,500
Throop Coal Co.												
Crippen	6	Jeffrey	Centrifugal	2	1,800		Electricity	4,000				
West Jermyn Coal Co.												
West Jermyn	2						Natural	10,000				
Grand total									853	573,364	141	181,302

[1] See Susquehanna County.
[2] See Wayne County.

LUZERNE COUNTY

Alden Coal Co.												
Alden	14	Guibal	Centrifugal	24	70	2.4	Electricity	79,800	12	3,600	4	1,900
		Vulcan	"	12	130	2.5	"	149,000				
		Vulcan	"	7	170	1.3	"	62,000				
Buck Mountain Coal Mining Co.												
Gowen	15								12	3,600	1	1,000
John Conlon Coal Co.												
Conlon	10	Stine	Disc	3	300		Electricity	12,000	1	400	1	400
Madeira	10	Jeffrey	Centrifugal	12	120	1.2	"	115,000	4	2,800	2	1,800
Total									5	3,200	3	2,200
Coxe Brothers & Co., Inc.												
Deringer & Tomhicken	15	Guibal	Centrifugal	8	180	.5	Electricity	84,600	8	6,790	5	6,100
		Jeffrey	"	5	153	2.	"	23,042	4	1,750	3	1,600
		Guibal	"	15	90	.9	"	80,136				
Drifton	15	Guibal	"	20	70	.2	"	151,000	11	11,200	6	9,500
		Jeffrey	"	8	140	.9	"	100,000				
		Jeffrey	"	7	164	1.1	"	34,475				
		Straitflo	"	7	290	.5	"	27,469				
Eckley & Buck Mountain	15						Natural		5	3,200	4	3,050
Total									28	22,940	18	20,250
R. M. Cranston												
Cranston	8	Buffalo	Centrifugal	4	400	1.						
Charles M. Dodson & Co.												
Beaver Brook	16	Champion Blower	Centrifugal	2	1,750	4.3	Electricity	10,800	1	170	1	170
							Electricity	4,000	9	12,050	6	9,950
East Alden Mining Co.												
East Alden	14						Natural					
East Boston Coal Co.												
East Boston	10	Guibal	Centrifugal	25	65	1.4	Steam	195,000	23	8,324	3	4,500
Fox Hill Mining Co.												
Fox Hill	10	Champion Blower	Centrifugal	3	55	1.05	Electricity	20,000	2	78	1	57
Glen Alden Coal Co.												
Auchinloss	14	Guibal	Centrifugal	25	76	2.6	Steam	291,000	3	900	2	600
		Guibal	"	12	143	2.4	"	Emergency				
		Vulcan	"	35	50	1.8	Electricity	341,000				
Avondale	13	Dickson	"	14	120	2.8	Electricity					
		Vulcan	"	25	80	2.8	Steam	235,000	23	19,750	7	9,500
		Jeffrey	"	8	214	2.8	Electricity					
Bliss	14	Guibal	"	35	52	2.5	Steam	300,000	21	12,700	4	8,000
		Jeffrey	"	14	100	2.5	Electricity	300,000				
		Vulcan	"	17	105	3.1	Steam	145,000				
Hallstead	7	Exhaust	Disc	12	173	1.8	Electricity	103,368	15	20,950	4	15,600

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LUZERNE COUNTY—Cont'd.												
Glen Alden Coal Co.—Cont'd.												
Loomis	13	Vulcan	Centrifugal	20	85	3.	Steam	230,000	14	16,600	3	700
		Vulcan	"	20	85	3.5	"	150,000				
		Vulcan	"	12	160	3.	Electricity	130,000				
		Vulcan	"	12	160	3.	"	87,500				
									40	134,500		
Loomis Power Plant	13											
Pettebone	10	Dickson	"	25	52	2.6	Steam	235,000	15	9,260	5	5,160
		Dickson	"	20	90		Electricity	Emergency				
		Sturtevant	"	16	76	1.6	"	250,000				
		Sturtevant	"	16	76		Steam	Emergency				
Truesdale	13	Guibal	"	25	80	2.5	"	193,200	66	37,000	16	15,280
		Guibal	"	25	80	2.5	"	197,700				
		Jeffrey	"	16	105	2.5	"	229,500				
		Jeffrey	"	16	100	2.5	"					
		Vulcan	"	16	100	2.5	"	116,800				
		Guibal	"	25	80	2.5	"	84,700				
		Open Type	"	12	125	1.	Electricity	57,600				
		Open Type	"	12	125	.6	"	90,915				
		Vulcan	"	12	80	.8	"	144,700				
Woodward	12	D. L. & W.	Disc	23	90	3.7	Steam	163,300	41	26,100	3	3,700
		Jeffrey	"	20	93	3.5	"	371,495				
		Jeffrey	"	20	90	4.	Electricity	278,163				
		Dickson	"	20	103	3.2	"					
		Dickson	"	35	47	3.	Steam					
		Jeffrey	"	20	70	2.2	"	66,000				
Total									238	277,760	44	58,540

Grand Tunnel Coal Co.												
West Nanticoke	13	Jeffrey	Centrifugal	8	80	2.	Electricity	85,000	5	8,600	3	6,000
Haddock Mining Co.												
Black Diamond	10	Guibal	Centrifugal	20	100	2.	Electricity	89,600	9	4,000	2	2,150
Harris-Denly Coal Co.												
Kintz	9						Natural	9,250	4	1,125	2	675
Hazle Brook Coal Co.												
Hazle Brook	15								4	1,800	2	1,500
Upper Lehigh	15								10	9,800	8	9,500
Total									14	11,600	10	11,000
Hillside Coal & Iron Co.												
Butler	7	Guibal	Centrifugal	12	140	2.	Steam	73,550	41	7,900	7	2,700
		Guibal	"	12	140	2.	Electricity	49,000				
		Guibal	"	14	96	2.	"	95,000				
		Guibal	"	14	96	2.	"	17,000				
		Guibal	"	16	80	1.	Steam	15,000				
		Guibal	"	20	50	.8	Electricity	68,500				
Hudson Coal Co.												
Baltimore No. 5	11	Guibal	"	20	70	1.2	"	150,865	72	43,820	6	2,946
		Guibal	"	20	95	2.9	Steam	99,120				
		Guibal	"	20	64	2.4	"	54,846				
		Guibal	"	22	80	1.8	Electricity	46,000				
		Guibal	"	20	50	.7	"	32,000				
		Jeffrey	"	17	98	2.9	Steam	114,640				
		Jeffrey	"	20	74	2.3	"	152,428				
Laflin	7	Guibal	"	20	65	1.4	"	90,050	22	17,790	4	1,514
		Jeffrey	"	5	200	1.2	Electricity	51,200				
Lorec No. 5-Boston	12	Guibal	"	28	70	3.1	Steam	107,989	45	41,790	8	4,440
		Guibal	"	22	80	2.	"	242,561				
		Guibal	"	22	82	1.75	"	118,141				
		Guibal	"	17	105	1.2	"	175,360				
		Buffalo	"	7	87	.1	Electricity	11,600				
		Guibal	"	17	86	1.2	Steam	129,700				
		Guibal	"	22	70	2.	"	156,510				
Pine Ridge	10	Guibal	"	12	140	2.7	Electricity	132,700	45	33,360	5	3,661
		Guibal	"	22	75	1.7	Steam	33,700				
		Guibal	"	28	69	3.	"	177,080				
		Guibal	"	28	64	3.1	Electricity	192,100				
Total									184	136,760	23	12,561
Jeddo-Highland Coal Co.												
Highland No. 2	15	Guibal	Centrifugal	16	65	.6	Steam	54,000	19	11,000	7	9,200
		Guibal	"	16	60	.7	Electricity	60,000				
Highland No. 5	15	Guibal	"	16	95	1.5	Steam	39,567	6	5,600	1	1,500
		Stuntevant	"	7	100	1.	"	29,000				

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LUZERNE COUNTY—Cont'd.												
Jeddo-Highland Coal Co.—Cont'd.												
Jeddo No. 4	15	Guibal	Centrifugal	16	75	1.	Steam	56,200	11	7,800	1	2,100
		Guibal	"	25	85	2.75	"	121,000				
		Guibal	"	16	75	1.	"	63,000				
		Jeffrey	"	6	110	.9	Electricity	63,000				
Jeddo No. 7	15	Sturtevant	"	5	150	.3	Steam	31,000	6	3,600	1	1,000
Total									42	28,000	10	13,800
Kingston Coal Co.												
Gaylord	12	Guibal	Disc	25	55	1.	Steam	128,000	4	1,800		
Kingston No. 2	12	Guibal	"	25	65	1.5	"	212,000	6	1,600		
		Guibal	"	21	70	1.5	"					
		Tuibo	Centrifugal	3	870		Electricity	15,000				
Kingston No. 4	9	Guibal	"	25	76	2.2	Steam	224,000	12	10,500	6	6,250
		Guibal	"	25	80	2.5	"					
		Buffalo	Disc	25	75	2.5	Electricity	Emergency				
		Guibal	Centrifugal	25	80	2.5	Steam	235,000				
		Guibal	"	25	80	2.6	"					
		Buffalo	Disc	25	75	2.6	Electricity	Emergency				
Total									22	13,900	6	6,250
Langcliffe Collieries Inc.												
Avoca	7						Natural	46,900	9	8,800	2	3,200
George F. Lee Coal Co.												
Chauncey	13	Jeffrey	Centrifugal	4	345	1.	Electricity	67,000	6	5,400	3	2,200

		Jeffrey	"	2	580	.1	"	14,000				
		Jeffrey	"	2	580	.2	"	12,750				
Lehigh Coal Co.												
Hazle Mountain No. 5	15								1	400	1	400
Lehigh Coal & Navigation Co.												
Cranberry	16	Guibal	Centrifugal	16	66	1.	Electricity	42,741	22	30,550	15	24,500
		Guibal	"	16	63	.5	"	65,300				
		Guibal	"	16	66	.7	"	37,500				
		Jeffrey	"	8	130	.8	"	80,850				
Lehigh Valley Coal Co.												
Dorrance	11	Guibal	Centrifugal	35	49	2.01	Steam	180,522	15	3,450	1	1,000
		Guibal	"	30				Emergeney				
		Guibal	"	28	63	2.6	Steam	146,600				
		Guibal	"	30				Emergency				
Exeter	9	Guibal	"	20	75	1.8	Steam	144,865	33	11,600	4	3,800
		Guibal	"	20	75	1.8	"	96,500				
		Guibal	"	20	70	1.7	"	124,800				
		Guibal	"	20	75	1.8	"	130,400				
Franklin	11	Jeffrey	"	16	90	1.4	"	68,500	21	14,790	3	4,800
		Jeffrey	"	16	90	1.4	"	124,000				
		Jeffrey	"	16	90	1.4	"	75,600				
Hazleton No. 1	15	L. V. Standard	"	20	65	1.	"	53,646	8	7,000	2	2,500
		L. V. Standard	"	20	65	1.5	"	23,870				
Hazleton Shaft & Stoekton	15	Guibal	"	20	43	.75	Electricity	28,487	16	13,350	5	11,500
		Guibal	"	20	60	.5	Steam	27,069				
		Jeffrey	"	8	122	.75	Electricity	39,351				
		Jeffrey	"	8	122	.75	"	1,673				
		Guibal	"	20	65	.5	Steam	5,148				
		Jeffrey	"	8	125	.75	Electricity	34,040				
		Guibal	"	20	43	.75	"	14,828				
		Jeffrey	"	7	125	.75	"	10,913				
Heidelberg	7	Jeffrey	Disc	8	260	.3	"	67,983	24	14,500	5	6,700
Maltby	9	Guibal	Centrifugal	25	78	2.6	Steam	157,000	27	5,800	2	2,000
		Guibal	"	20	70	2.6	"					
		Jeffrey	Disc	8	128	1.5	Electricity	120,000				
Mineral Spring	10	Guibal	Centrifugal	20	65	1.1	Steam	115,800	17	10,600	3	3,400
		Guibal	"	20	65	1.1	"	115,800				
		Guibal	"	12	100	.7	"	28,000				
Prospect	9	Guibal	"	20	72	1.4	"	90,100	18	6,700	3	2,600
		Guibal	"	15			"	Emergency				
		Guibal	"	20	75	1.6	"	163,150				
		Guibal	"	30	55	2.	"	160.650				
		Guibal	"	30			"	Emergeney				
Prospeet (Henry)	10	Guibal	"	30	53	2.	"	93,575	40	12,400	3	3,600
		Guibal	"	28	45	1.6	"	79,972				
		Guibal	"	25	50	1.	"	102,480				
		Guibal	"	20	73	1.2	"	91,200				
Seneca	7	Guibal	"	24	74	2.1	"	119,250	30	21,650	10	16,500
		Guibal	"	12	120	1.6	"	60,550				
		Guibal	"	20	60	.8	"	27,000				

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LUZERNE COUNTY—Cont'd.												
Lehigh Valley Coal Co.—Cont'd.												
Spring Mountain	16	Guibal	Centrifugal	20	75	.5	Steam	57,825				
Warrior Run	13	Guibal	"	20	56	1.	"	100,000	7	3,243	2	1,250
		Guibal	"	14	75	1.2	"	32,000				
Westmoreland	9	Guibal	"	20	78	1.8	"	116,500	21	3,900	3	2,000
William A.	7	Jeffrey	Disc	8	106	.5	Electricity	42,525	13	6,650	13	6,650
		Jeffrey	"	6	390	.5	"	19,137				
		Jeffrey	"	6	390	.5	"	15,581				
		Jeffrey	"	4	390	.3	"	6,831				
Total									290	135,633	59	68,300
Lehigh & Wilkes-Barre Coal Co.												
Buttonwood No. 22	13	Jeffrey	Centrifugal	12	100	1.5	Steam	Emergency	17	10,104	4	2,848
		Jeffrey	"	12	100	1.5	"	148,100				
		Guibal	"	24	78	1.9	"	Emergency				
		Guibal	"	35	48	1.9	"	136,660				
		Vulcan	"	6	130	.015	Electricity	36,450				
Hollenback No. 2	11	Guibal	"	35	48	2.	Steam	168,790	14	5,506	1	1,091
		Guibal	"	24	72	1.5	"	Emergency				
		Guibal	"	35	48	1.8	"	Emergency				
		Guibal	"	38	48	2.	"	122,840				
		Jeffrey	"	8	124	1.	Electricity	17,460				
Lance No. 11	12	Jeffrey	"	16	100	2.2	Steam	300,300	19	8,179	3	1,673
		Jeffrey	"	16	100	2.2	"	Emergency				
Maxwell No. 20	13	Guibal	"	24	72	1.9	"	Emergency	11	7,198	4	1,812
		Guibal	"	24	72	1.9	"	201,780				
		Guibal	"	35	48	1.4	"	192,370				
		Guibal	"	35	48	1.4	"	Emergency				

Nottingham No. 15	12	Guibal	"	24	73	1.9	"	105,185	24	13,638	3	3,794
		Guibal	"	24	73	1.9	"	Emergency				
		Vulcan	"	16	106	2.5	Electricity	120,700				
		Vulcan	"	16	106	2.5	Air	Emergency				
		Jeffrey	"	8	120	.5	Electricity	65,680				
So. Wilkes-Barre No. 5	11	Guibal	"	35	48	1.7	Steam	186,100	11	4,640	2	399
		Guibal	"	35	48	1.7	"	Emergency				
		Guibal	"	35	48	1.7	"	183,600				
		Guibal	"	35	48	1.7	"	Emergency				
Stanton No. 7	11	Vulcan	"	14	90	1.3	Electricity	348,945	22	10,534	4	2,872
		Vulcan	"	14	90	1.3	Air	Emergency				
		Vulcan	"	14	81	1.9	Steam	282,200				
		Vulcan	"	14	80	1.7	"	Emergency				
Sugar Notch No. 9	13	Jeffrey	"	16	92	2.	"	218,500	20	8,678	4	1,568
		Jeffrey	"	16	92	2.	"	Emergency				
		Jeffrey	"	8	128	1.	Electricity	80,000				
Wanamie No. 18	14	Guibal	"	24	70	1.8	Steam	107,820	13	8,124	4	1,896
		Jeffrey	"	16	92	2.2	"	127,560				
		Jeffrey	"	10	115	1.6	Electricity	83,000				
		Jeffrey	"	10	112	1.5	"	131,700				
Total									151	76,601	29	17,953
Lehigh-Wyoming Valley Coal Co. Florence	7	Stine	Disc	6	350	1.6	Electricity	48,530	1	1,200	1	1,200
Miners Mills Coal Mining Co. Miners Mills	10						Natural	93,000	2	200	1	100
Mt. Lookout Coal Co. Mt. Lookout	9	Guibal	Centrifugal	20	70	2.	Steam	105,290	31	18,000	2	3,000
		Guibal	"	20	80	2.3	"	62,310				
Pardee Brothers & Co., Inc. Beaver Brook	16	Champion Blower	Centrifugal	2	1,750	.3	Electricity	4,000	15	12,550	6	9,950
		Stine	Disc	6	335	1.	"	60,000				
		Sturtevant	Centrifugal	2	408	.1	"	20,000				
Lattimer	15	Stine	Disc	8	335	1.	"	29,400	5	7,300	2	2,300
		Sturtevant	Centrifugal	6	195	.4	"					
		Stine	Disc	6	490	1.	"	11,220				
		Stine	"	6	446	.6	"	28,980				
		Stine	"	6	450	.8	"	30,595				
		Sturtevant	Centrifugal	6	194	1.	"	26,660				
		Sturtevant	"	6	305	.4	"					
		Sturtevant	"	6	223	.4	"	28,790				
		Sturtevant	"	4	180	.2	Air	9,400				
Total									20	19,850	8	12,250

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
LUZERNE COUNTY—Cont'd.												
Pennsylvania Coal Co.												
Central	7	Guibal	Centrifugal	20	50	.5	Steam	106,300	28	21,050	12	14,400
		Guibal	"	16	40	.3	Electricity	33,400				
		Guibal	"	20	60	.6	Steam	67,500				
Ewen	8	Guibal	"	14	99	1.6	"	115,140	43	20,460	6	15,800
		Guibal	"	14	99	1.6	"	92,525				
		Guibal	"	20	60	.8	"	51,162				
		Guibal	"	10	137	2.	Electricity	116,285				
		Guibal	"	20	70	1.2	Steam	47,850				
No. 6	8	Guibal	"	20	70	1.	"	117,190	26	9,350	1	2,500
		Guibal	"	20	70	1.	"	145,475				
		Guibal	"	20	75	1.	"	136,100				
		Guibal	"	20	68	1.5	"	17,350				
No. 9	8	Guibal	"	20	70	1.5	"	49,550	45	28,978	9	17,200
		Guibal	"	10	125	2.	Electricity	13,750				
		Guibal	"	20	60	1.	Steam	8,890				
		Guibal	"	20	59	1.	"	134,500				
		Guibal	"	20	64	1.1	"	47,765				
		Guibal	"	10	135	2.	Electricity	68,000				
		Guibal	"	20	64	1.1	Steam	67,115				
No. 14	8	Guibal	"	20	55	.5	"	48,200	53	33,050	6	7,800
		Guibal	"	14	120	2.	Electricity	168,290				
		Guibal	"	20	70	1.5	Steam	63,200				
		Guibal	"	20	70	.9	"	97,360				
		Guibal	"	17	70	.8	"	17,790				
		Guibal	"	20	65	.8	"	7,595				
		Guibal	"	17	56	.7	Electricity	45,900				

		Guibal	"	4	80	.5		12,000				
		Guibal	"	20	65	.8	Steam	8,000				
Total									195	112,888	34	57,700
Pittston Coal Mining Co.												
Hadleigh	13	Guibal	Centrifugal	16	72	.8	Steam	60,000	11	6,700	2	1,900
Plymouth Red Ash Coal Co.												
Red Ash	12						Natural	21,150	1	125		
T. F. Quinn Coal Co.												
Consolidated	7						Natural	50,000				
Raub Coal Co.												
Louise	10						Natural	24,000	4	2,600	1	1,000
Sandy Run Coal Co.												
Sandy Run	15						Natural		7	8,250	1	1,000
Scranton Anthracite Coal Co.												
Barnum	7	Guibal	Disc	12	350	1.	Electricity	30,000				
Pickaway	7	Guibal	Centrifugal	3	300	.2	"	3,000	3	210	1	70
E. S. Stackhouse Coal Co.												
Salem	14						Natural		8	1,250	8	1,000
Sullivan & Flynn Coal Co.												
Sullivan & Flynn	11	Own Make	Disc	6	300		Electricity	39,520	1	300	1	300
Suscon Coal Co.												
Suscon	9	Sturtevant	Centrifugal	3	275	1.	Electricity	17,800	1	100	1	100
Susquehanna Collieries Co.												
No. 6	14	Sturtevant	Centrifugal	9	180	1.2	Electricity	69,000	38	26,685	16	20,735
		Jeffrey	"	10	150	1.8	"	61,900				
		Vulcan	"	10	140	2.	"	87,500				
		Connellsville	"	8	170	1.3	"	30,000				
		Guibal	"	20	70	1.6	"	123,800				
No. 7	14	Guibal	"	25	72	2.1	Steam	99,100	43	15,400	4	7,600
		Guibal	"	25	60	1.6	"	98,200				
		Guibal	"	25	64	2.	"	162,275				
		Guibal	"	20	80	1.8	Electricity	84,300				
		Jeffrey	"	18	90	2.4	Steam	59,700				
		Copal	"	10	216	3.2	Electricity	88,600				
		Vulcan	"	16	125	3.9	Steam	157,000				
		Sturtevant	"	5	240	.2	Electricity	34,600				
		Connellsville	"	8	170	1.3	"	30,000				
Total									81	42,085	20	28,335
Temple Coal Co.												
Harry E.	9	Guibal	Centrifugal	25	75	2.	Steam	170,000	53	26,935	6	8,550
		Guibal	"	20	95	2.5	"	107,500				
		Guibal	"	20	90	2.3	"	103,300				
Terry Coal Co.												
Black Creek Washery	13								2	600		

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface	
											Number	Approximate number of gallons per minute
LUZERNE COUNTY—Cont'd.												
Troy Coal Co.												
Troy	9	----------	----------	----------	----------	----------	Natural	23,500	2	600	2	600
West End Coal Co.												
West End	14	Gulbal	Centrifugal	15	130	1.2	Electricity	75,000	32	24,250	9	21,000
		Jeffrey	"	8	180	1.2	"	85,000				
		Jeffrey	"	4	600	.5	"	14,500				
		American Blower	Disc	4	500	.6	"	12,500				
		Buffalo	"	4	550	.5	"	12,000				
		Jeffrey	Centrifugal	16	180	1.3	"	21,000				
Wolf Collieries Co., Inc.												
Wolf	15	Gulbal	Centrifugal	8	1,100	.8	Electricity	8,000	5	3,600	4	3,000
Yatesville Coal Co.												
Yatesville	9	Sturtevant	Centrifugal	6	250	1.	Electricity	28,500	3	225	1	75
Grand total		----------	----------	----------	----------	----------	----------	----------	1,593	1,070,459	356	411,436
NORTHUMBERLAND COUNTY												
Colonial Colliery Co.												
Colonial	23	Jeffrey	Centrifugal	6	250	2.5	Electricity	60,000	33	43,158	5	11,500
		Vulcan	"	12	180	3.5	"	100,000				
		Mullen	"	21	80	2.	"	90,000				
		Mullen	"	12	80	1.5	"	65,000				
		Sturtevant	"	8	100	2.5	"	50,000				
		Jeffrey	"	8	100	1.5	"	40,000				
		Sturtevant	"	6	365	.8	"	25,000				

Excelsior Coal Co.												
Corbin	24						Natural	28,400	4	2,000	2	700
Lehigh Valley Coal Co.												
Sayre	22	Guibal	Centrifugal	8	175	1.5	Electricity	10,506	15	13,400	5	10,000
		Guibal	"	12	65	1.	"	30,000				
		Guibal	"	20	80	2.	Steam	64,000				
		Guibal	"	12	110	.5	Electricity	12,836				
Northumberland Mining Co.												
Enterprise	24	Guibal	Centrifugal	16	100	1.5	Electricity	67,000	21	20,400	4	8,600
		Guibal	"	16	95	1.	"	66,000				
		Guibal	"	16	75	.75	"	27,000				
Phila. & Reading Coal & Iron Co.												
Alaska	23	Guibal	Centrifugal	18	88	1.2	Steam	96,000	14	11,836	6	2,052
		Jeffrey	"	6	235	1.	Electricity	78,000				
		Jeffrey	"	6	207	1.	"	69,000				
Bear Valley	24	Jeffrey	"	6	240	.8	"	55,000	8	10,004	7	2,439
		Guibal	"	15	144	1.8	"	80,000				
		Jeffrey	"	6	200	.9	"	60,600				
		Jeffrey	"	6	140	.8	"	30,000				
Burnside	24	Guibal	"	18	85	2.5	Steam	80,000	10	10,290	7	2,633
		Guibal	"	21	75	1.6	"	100,000				
		Jeffrey	"	6	210	2.3	Electricity	85,000				
		Jeffrey	"	6	250	1.1	"	100,000				
Henry Clay	24	Jeffrey	"	6	180	1.2	Steam	55,000	8	5,242	4	3,205
		Jeffrey	"	6	230	1.8	"	85,000				
		Jeffrey	"	6	220	.9	Electricity	109,665				
		Jeffrey	"	6	220	1.2	"	88,880				
Locust Spring	23	Guibal	"	21	70	1.7	Steam	72,600	9	13,371	7	5,600
		Jeffrey	"	10	140	1.6	Electricity	125,000				
		Guibal	"	18	150	.6	Steam	54,800				
		Jeffrey	"	6	140	.6	Electricity	52,000				
		Jeffrey	"	10	150	.6	"	123,000				
		Guibal	"	16	120	2.	Steam	66,700				
		Jeffrey	"	6	140	.3	Electricity	59,000				
		Guibal	"	21	120	1.5	Steam	83,500				
North Franklin	24	Jeffrey	"	10	110	2.1	Electricity	150,000	11	6,800	6	4,261
		Guibal	"	18	80	1.	"	80,000				
		Guibal	"	10	85	.7	Steam	25,000				
		Guibal	"	18	84	1.	"	84,000				
Total									60	57,543	37	20,190
Shamokin Coal Co.												
Neilson	24	Sirocco	Centrifugal	10	125	1.5	Electricity	75,000	5	4,250	2	2,000
		Sirocco	"	10	125	1.6	"	76,000				
Shamokin Colliery Co.												
Washery	23								5	4,700		
South Penn Collieries Co.												
Katherine	24						Natural	10,785	1	400	1	400

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation: Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Pumps: Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
NORTHUMBERLAND CO.—Cont'd.												
Stevens Chapin Coal Co.												
Washery	23								3	3,000		
Susquehanna Collieries Co.												
Cameron	24	Guibal	Centrifugal	20	105	3.2	Electricity	62,775	14	13,550	3	3,000
		Guibal	"	18	107	3.2	Steam	48,325				
		Vulcan	"	6	176	1.	Electricity	19,340				
		Sturtevant	"	5	540	.5	"	22,000				
		Sirocco	"	5	500	.8	"	16,700				
		Connellsville	"	8	174	1.7	"	110,000				
Luke Fidler	24	Guibal	"	18	95	1.5	Steam	59,000	10	12,025	9	3,500
		Guibal	"	16	120	2.	Electricity	65,000				
		Guibal	"	12	120	1.5	"	53,000				
		Sturtevant	"	10	200	2.4	"	13,000				
		Sturtevant	"	4	250	.5	"	13,300				
		Connellsville	"	8	174	2.	"	93,590				
		Carpenter	"	5	250	.5	"	9,000				
Pennsylvania	23	Guibal	"	21	90	2.	"	124,500	17	17,719	8	4,094
		Guibal	"	21	90	2.2	"	112,300				
		Guibal	"	16	90	2.	"	102,000				
		Sturtevant	"	6	168	1.2	"	51,200				
		Capell	"	7	200	1.	"	65,400				
		Conoidal	"	6	165	.9	"	65,400				
		Connellsville	"	8	170	1.7	"	108,600				
		Buffalo	"	5	200	1.	"	27,600				
Richards	23	Guibal	"	18	100	1.7	"	89,476	15	14,600	3	1,713
		Guibal	"	21	100	1.7	"	91,647				
		Jeffrey	"	7	160	1.5	"	58,162				

		Jeffrey	"	10	150	1.8	"	116,200				
		Connellsville	"	8	170	1.7	"	89,567				
Scott	23	Vulcan	"	12	159	3.5	Steam	126,270	12	9,450	4	1,498
		Guibal	"	10	172	1.7	Electricity	107,950				
		Guibal	"	10	168	1.7	"	50,400				
		Guibal	"	18	90	1.6	"	54,050				
Total									68	67,344	27	13,805
Grand total									215	216,195	83	67,195
SCHUYLKILL COUNTY												
Black Heath Coal Co.												
Black Heath	19						Natural					
Buck Run Coal Co.												
Buck Run	19	Jeffrey	Centrifugal	6	300	3.	Electricity	100,000	21	17,230	7	6,450
		Jeffrey	"	6	280	1.25	"	62,000				
		Jeffrey	"	6	240	1.13	"	48,000				
		Jeffrey	"	6	240	1.13	"	25,000				
		Jeffrey	Disc	6	400	1.	"	25,000				
Chestnut Hill Coal Co.												
Chestnut Hill	18	Jeffrey	Centrifugal	5	640	1.5	Electricity	5,000	3	1,000	2	500
Coxe Brothers & Co., Inc.												
Oneida	16	Guibal	Centrifugal	20	60	.9	Steam	39,420				
		Jeffrey	"	8	118	1.2	Electricity	51,189				
		Pelzer	"	12	120	.8	Steam	67,340				
East Bear Ridge Colliery Co.												
East Bear Ridge	22	Guibal	Centrifugal	16	75	1.2	Electricity	50,000	4	5,300	4	5,300
Frackville Coal Co.												
Lucanna	18	Jeffrey	Centrifugal	3	300	1.	Electricity	4,800	2	575		
Gorman & Campion Coal Co.												
Bell	18	Stine	Disc	3	1,160	2.	Electricity	2,500	2	800	1	300
Haddock Mining Co.												
Candlemas	16	Jeffrey	Centrifugal	6	195	1.5	Electricity	10,500	40	23,375	15	12,000
		Jeffrey	"	8	128	1.	"	28,000				
		Jeffrey	"	8	115	1.3	"	25,000				
		Jeffrey	"	8	180	1.2	"	52,000				
Salem Hill	18	Jeffrey	"	3	350	1.5	"	15,000	1	50	1	50
Total									41	23,425	16	12,050
Harleigh-Brookwood Coal Co.												
Lawrence	22	Vulcan	Centrifugal	20	80	2.	Electricity	140,000	15	18,600	4	3,200
		Vulcan	"	14	80	1.2	"	80,000				
Thomas	21						Natural		14	12,130	4	1,000
Total									29	30,730	8	4,200

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
SCHUYLKILL COUNTY—Cont'd.												
Hazle Brook Coal Co.												
Girard	22	Sirocco	Disc	7	170	1.75	Electricity	60,000	5	9,200	4	9,000
Maryd	18	Vulcan	Centrifugal	20	54	1.	Steam	44,400	6	10,150	4	4,200
		Jeffrey	"	7	155	1.3	Electricity	50,000				
Raven Run	21	Guibal	Disc	9	256	1.1	"	24,130	15	14,469	5	2,800
		Sturtevant	Centrifugal	6	225	.6	"	14,796				
Westwood	25	Vulcan	"	16	110	1.	"	86,000	6	2,850	2	2,400
Total									32	36,669	15	18,400
Laurel Coal Mining Co.												
Bickle	22	Jeffrey	Centrifugal	3	425	1.	Electricity	23,450	2	1,300	1	200
Lehigh Coal & Navigation Co.												
Alliance	18	Jeffrey	Centrifugal	8	220	3.2	Electricity	103,660	8	13,300	2	4,100
		Sturtevant	"	9	160	2.6	"	104,320				
		Guibal	"	10	96	.8	"	59,700				
Coaldale	17	Jeffrey	"	10	171	2.25	"	229,000	4	7,250	3	6,000
		Sturtevant	"	12	128	1.8	Steam	55,000				
Greenwood	17	Vulcan	"	12	184	4.25	Electricity	270,000	5	8,750	3	6,000
Rahn	17	Jeffrey	"	10	179	3.	"	163,000	12	17,000	5	11,500
		Sirocco	"	10	176	1.9	"	46,780				
		Jeffrey	"	8	130	1.25	"	11,000				
Tamaqua	18	Guibal	"	21	92	2.75	"	240,000	5	9,000	5	9.000
		Guibal	"	20	93	2.8	"	75,000				
Total									84	55,300	18	36,600

Lehigh Valley Coal Co.												
Buck Mountain	18	Guibal	Centrifugal	20	20	.2	Steam	116,000	19	13,100	5	10,500
		Guibal	"	16	85	.5	"	35,000				
		Vulcan	"	10	150	.5	"	50,000				
		Guibal	"	25	65	1.6	Electricity	97,000				
Packer No. 2	21	Jeffrey	"	8	152	1.	"	117,000	6	4,800	2	1,450
Packer No. 3	21	Guibal	"	18	70	.6	Steam	85,200	2	600		
Packer No. 4	21	Guibal	"	20	62	1.	"	76,000	4	5,600	2	4,400
Packer No. 5	21	Vulcan	"	18	90	2.	"	120,800	4	4,500	2	2,500
		Vulcan	"	18	90	2.	"	70,000				
Park	20	Sirocco	"	9	113	1.5	"	52,000	53	21,500	12	8,600
		Sirocco	"	8	130	1.	"	40,000				
		Sturtevant	"	6	75	1.	"	25,700				
		Jeffrey	"	8	160	1.						
Springdale Washery	20						Electricity	11,000				
Total									4	6,950	2	5,200
									92	57,050	25	32,650
Lehigh & Wilkes-Barre Coal Co.												
Audenried No. 4	16	Jeffrey	Centrifugal	8	110	.8	Steam	47,700	10	15,000	7	8,000
		Guibal	"	12	85	1.	Electricity	Emergency				
		Guibal	"	15	80	.8	Steam	45,750				
Honey Brook	16	Guibal	"	15	65	.6	Electricity	23,500	1	1,000	1	1,000
		Guibal	"	8	135	.8	"	30,000				
		Guibal	"	15	65	.7	"	24,500				
		American Blower	"	4	1,200	3.	"	8,000				
		American Blower	"	4	1,500	3.	"	8,000				
Total									11	16,000	8	9,000
Locust Mountain Coal Co.												
Weston	21	Stine	Disc	5	580	2.	Electricity	98,000	6	1,400		
Lytle Coal Co.												
Lytle	19	Guibal	Centrifugal	20	94	2.2	Electricity	145,000	15	16,950	2	5,000
		Guibal	"	18	95	2.2	"	90,000				
		Guibal	"	12	164	2.1	"	130,000				
		Guibal	"	6	275	1.5	"	41,000				
Mill Creek Coal Co.												
Morea	18						Natural	48,135	12	20,500	9	2,700
Middle Lehigh	18						"	35,700	3	4,200	1	400
Wolf Creek	18	Guibal	Centrifugal	16	70	.4	Electricity	48,250	8	6,150	4	800
Total									23	30,850	14	3,900
Phila. & Reading Coal & Iron Co.												
Bancroft	22	Jeffrey	Centrifugal	6	190	1.	Electricity	76,000	1	1,000		
		Jeffrey	"	6	190	1.	"	50,000				
Bast	22	Guibal	"	24	8	2.	Steam	96,000	9	11,352	3	1,911

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Continued

Operators and collieries	District	Ventilation							Pumps			
		Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
SCHUYLKILL COUNTY—Cont'd.												
Phila. & Reading Coal & Iron Co.—Cont'd.												
Bast—Cont'd.	22	Guibal	Centrifugal	21	80	2.	Steam	72,000				
		Jeffrey	"	10	190	1.	Electricity	75,000				
		Jeffrey	"	6	190	1.	"	60,000				
Brookside	25	Jeffrey	Disc	6	195	1.2	"	70,997				
		Guibal	Centrifugal	15	91	1.2	Steam	39,182				
		Guibal	"	21	91	2.1	"	72,914				
		Jeffrey	Disc	6	170	.8	Electricity	39,597				
		Jeffrey	"	6	165	1.	"	27,357				
		Jeffrey	"	6	167	.7	"	33,098				
Eagle Hill	18	P. & R.	Centrifugal	20	80	1.5	Steam	98,200	4	4,099	3	1,463
		Guibal	"	8	80	.4	Electricity	45,000				
		Jeffrey	"	6	200	2.	"	36,775				
		Jeffrey	"	6	200	2.	"	35,450				
		Jeffrey	"	10	140	1.	"	139,800				
Ellangowan	20	Guibal	"	21	70	1.	Steam	75,000	7	12,746	7	2,694
		Guibal	"	18	55	.9	"	101,000				
Gilberton	22	Guibal	"	21	80	1.9	"	107,000	10	16,450	4	3,872
		Guibal	"	21	80	1.9	"	84,000				
		Jeffrey	"	6	190	1.5	Electricity	89,000				
		Jeffrey	"	6	190	1.5	"	45,000				
Good Spring	25	Guibal	"	18	80	1.2	Steam	76,845	7	8,227	4	2,362
		Guibal	"	18	80	1.2	"	146,267				
		Guibal	"	16	80	1.	"	57,993				

		Guibal	"	15	84	1.	"	45,000					
		Jeffrey	Disc	6	150	.6	Electricity	103,754					
		Jeffrey	"	6	172	.4	"	41,400					
		Jeffrey	"	6	172	.6	"	46,800					
Hammond	21	Guibal	Centrifugal	21	80	2.2	Steam	198,000	7	9,546	3	2,178	
		Guibal	"	21	80	2.2	"						
Lincoln	25	Guibal	"	21	85	2.	"	134,110	5	7,130	2	2,768	
		Guibal	"	18	98	2.	"	77,110					
Mahanoy City	20	Guibal	"	21	86	2.	"	210,000	6	5,962	2	1,380	
Maple Hill	20	Guibal	"	21	70	1.7	"	100,000	14	14,996	5	4,717	
		Guibal	"	21	84	1.7	"	67,000					
		Guibal	"	21	75	1.7	"	39,000					
		Guibal	"	21	75	1.9	"	102,000					
		Jeffrey	"	6	222	.5	Electricity	36,000					
		Guibal	"	21	75	1.8	Steam	63,000					
		Guibal	"	21	70	1.7	"	43,000					
Middle Creek	25	Jeffrey	Disc	6	118	.3	Electricity	62,000					
		Jeffrey	"	6	180	.3	"	81,000					
		Jeffrey	"	6	180	.3	"	83,550					
North Mahanoy	20	Guibal	Centrifugal	21	80	1.9	Steam	160,000	6	10,816	2	1,363	
		Jeffrey	"	6	235	2.	Electricity	104,000					
Otto	19	P & R	"	21	85	2.25	Steam	80,800	13	9,500	7	2,056	
		P & R	"	15	70	1.75	"	24,600					
		P & R	"	18	60	.88	"	34,800					
		P & R	"	21	94	1.25	"	85,600					
		Jeffrey	"	6	124	.5	Electricity	10,600					
		Jeffrey	"	8	160	.63	"	37,700					
Pine Knot	19	Guibal	"	21	79	2.	Steam	72,800	10	13,786	9	6,064	
		Jeffrey	"	6	450	.5	Electricity	55,300					
Reevesdale	18	Jeffrey	"	6	150	.2	"	11,350					
		Jeffrey	"	6	110	.2	"	27,300					
Shenandoah City	21	Guibal	"	21	80	1.8	Steam	98,000	13	14,521	5	1,504	
		Jeffrey	"	6	220	1.9	Electricity	76,890					
		Guibal	"	18	70	1.1	"	72,160					
		Jeffrey	"	6	154	1.3	"	74,000					
Silver Creek	18	P & R	"	21	65	1.6	Steam	96,800					
		Jeffrey	"	10	200	1.3	Electricity	95,290					
Tunnel Ridge	20	Jeffrey	"	6	245	2.	"	69,000	17	24,404	9	5,246	
		Jeffrey	"	6	245	2.	"	98,000					
		Guibal	"	21	70	1.6	Steam	103,000					
		Guibal	"	15	72	1.7	"	65,000					
		Guibal	"	21	80	2.	"	78,000					
Wadesville	18	Jeffrey	"	8	110	.6	Electricity	32,000	2	3,500	2	3,500	
		Jeffrey	"	6	90	.5	"	11,000					
		Guibal	"	21	70	1.	Steam	58,000					
		Jeffrey	"	6	232	1.6	Electricity	51,000					
		Guibal	"	21	70	1.5	Steam	60,000					
West Shenandoah	21	Jeffrey	"	6	215	1.2	Electricity	69,000	14	12,066	3	1,505	
		Guibal	"	21	90	3.	Steam	112,000					
		Jeffrey	"	6	162	.5	Electricity	66,570					

Table 5—Operators and mines, type and size of fans, volume of air produced by fan per minute, number and capacity of pumps, 1928—Concluded

Operators and collieries	District	Ventilation: Name of fan	Type—disc or centrifugal	Diameter of fan in feet	Revolutions per minute	Water gauge developed—in inches	Power used	Cubic feet of air per minute produced by the ventilator	Pumps: Total number	Total capacity in gallons per minute	Pumps Delivering Water to Surface: Number	Pumps Delivering Water to Surface: Approximate number of gallons per minute
SCHUYLKILL COUNTY—Cont'd.												
Phila. & Reading Coal & Iron Co.—Cont'd.												
West Shenandoah—Cont'd.	21	P & R	Centrifugal	6	192	2.	Electricity	60,640				
Total									145	180,101	70	44,583
Pine Hill Coal Co.												
Oak Hill	19	Jeffrey	Centrifugal	10	160	3.	Electricity	150,000	5	6,800	3	4,400
		Jeffrey	"	5	170	3.	"	23,000				
Pine Hill	19	Jeffrey	"	6	334	3.15	"	141,500	6	10,500	3	6,200
		Jeffrey	"	7	155	1.2	"	96,000				
		Guibal	"	10	67	.7	"	45,700				
		Guibal	"	16	95	1.5	"	56,000				
Total									11	17,300	6	10,600
Repplier Coal Co.												
New Castle	19	American Blower	Centrifugal	6	280	1.	Electricity	20,540	21	22,110	6	8,000
		Jeffrey	"	6	235	1.75	"	33,700				
		Jeffrey	Disc	6	586	1.	"	36,880				
		Jeffrey	"	6	320	.75	"	21,460				
		Jeffrey	Centrifugal	4	272	1.25	"	16,470				
Saint Clair Coal Co.												
Saint Clair	18	Vulcan	Centrifugal	10	110	1.2	Electricity	125,000	21	18,600	10	8,700
		Guibal	"	16	95	1.5	"	85,000				
		Jeffrey	"	7	98	1.	"	40,000				
Sherman Coal Corp.												
Sherman	19	Jeffrey	Centrifugal	3	450	1.2	Electricity	17,950				

		Buffalo	"	3	770	1.4	"	30,760				
South Penn Collieries Co. Randolph	18	Vulcan	Centrifugal	10	164	2.	Electricity	82,000	2	1,800	2	1,800
Susquehanna Collieries Co. Wm. Penn	21	Jeffrey	Centrifugal	12	116	2.	Steam	189,400	2	1,200	1	1,000
Grand total									519	535,690	216	209,233
SULLIVAN COUNTY												
Connell Anthracite Mining Co. Connell	10	Gulbal	Centrifugal	16	87	1.	Electricity	200,000	3	500		
		Stine	"	5	508	1.	"	80,000				
Northern Anthracite Coal Co. Murray	10	Gulbal	Centrifugal	16	85	1.6	Steam	72,500				
Grand total									3	500		
SUSQUEHANNA COUNTY												
Hillside Coal & Iron Co. Forest City	1	Gulbal	Centrifugal	20	60	1.	Electricity	83,094	30	19,290	7	4,800
		Gulbal	"	20	35	1.	"	37,155				
		Gulbal	"	24	55	1.	Steam	122,190				
Hudson Coal Co. Clinton[1]	1											
Grand total									30	19,290	7	4,800
WAYNE COUNTY												
Hillside Coal & Iron Co. Forest City[2]	1											
Hudson Coal Co. Clinton	1	Gulbal	Centrifugal	20	95	2.3	Steam	111,780	29	14,360	4	2,645
		Gulbal	"	17	100	2.2	Electricity	42,740				
		Buffalo	"	15	90	1.8	"	47,960				
Vandling Coal Co. Northeast	1						Natural					
Grand total									29	14,360	4	2,645
Grand total all counties									3,359	2,548,812	848	931,559

[1] See Wayne County.
[2] See Susquehanna County.

Table 6—Showing coal seam worked, machinery used, number of employes and number of tons produced by mechanical mining, 1927

County	Mechanical mining					Machine mining (all methods)			
						Mining machines			
	Number of scraper units	Number of conveyor units	Number of loading machines	Number of employes engaged in this class of work	Number of tons of coal produced by this class of mining	Electric	Compressed air	Approximate tons produced by electric machines	Approximate tons produced by compressed air machines
Carbon									
Columbia									
Dauphin									
Lackawanna	127	2	3	1,179	913,647	96	13	1,007,708	33,921
Luzerne	97	110	5	895	668,157	8		72,305	
Northumberland	33	46		297	203,280	6		11,476	
Schuylkill	14			67	54,061				
Sullivan	10			30	11,000	15		55,700	
Susquehanna	1	1		26	11,471	12		61,158	
Wayne	15			142	123,456				
Total	297	159	8	2,636	1,985,072	137	13	1,208,347	33,921

Table 6—Showing coal seam worked, machinery used, number of employes and number of tons produced by mechanical mining, 1928

Operators and Collieries	District	Geological and local name of coal bed	Average height of seam—in inches	Mechanical mining					Machine mining (all methods)			
				Number of scraper units	Number of conveyor units	Number of loading machines	Number of employes engaged in this class of work	Number of tons of coal produced by this class of mining	Mining machines: Electric	Mining machines: Compressed air	Approximate tons produced by electric machines	Approximate tons produced by compressed air machines
CARBON COUNTY												
COLUMBIA COUNTY												
DAUPHIN COUNTY												
LACKAWANNA COUNTY												
Glen Alden Coal Co.												
Diamond	3			1			10	600	1		600	
Hyde Park	5	H or Four Foot	28	2			36	66,142	8		66,142	
Storrs	6	H or Four Foot	40	7	5		109	68,561	6		47,371	
Total				10	5		155	135,303	15		114,113	
Glendale Anthracite Collieries												
Glendale	1	Clark Rider	24	2			11	12,000				
Hillside Coal & Iron Co.												
Forest City[1]	1											
Hudson Coal Co.												
Clinton[2]												
Coal Brook	2	B or Dunmore No. 1	42	8			150	139,597	11		139,597	
Eddy Creek	3			9			92	58,869	4		14,758	
Gravity Slope	2	B or Dunmore No. 1	42	5			38	33,742	1		8,098	
Jermyn	2	B or Dunmore No. 1	30	19			176	173,158	12		106,677	
Marvine	3			20			172	111,197	2		4,210	
Olyphant	6	C or Bottom Clark	41	15			130	125,267	2		19,060	
Powderly	2	D or New County	51	1			8	1,567	1		1,567	
Total				77			766	643,397	33		293,967	

Table 6—Showing coal seam worked, machinery used, number of employes and number of tons produced by mechanical mining, 1928—Continued

Operators and Collieries	District	Geological and local name of coal bed	Average height of seam—in inches	Mechanical mining					Machine mining (all methods)			
				Number of scraper units	Number of conveyor units	Number of loading machines	Number of employes engaged in this class of work	Number of tons of coal produced by this class of mining	Mining machines: Electric	Mining machines: Compressed air	Approximate tons produced by electric machines	Approximate tons produced by compressed air machines
LACKAWANNA COUNTY—Cont'd.												
Lackawanna Anthracite Mining Co.												
Richmondale	1	Dunmore No. 3	26	3			32	24,275				
Lackawanna Coal Co., Ltd.												
Lackawanna	6	C or Clark	26	2			85	10,706	5		9,042	
Lehigh Valley Coal Co.												
Broadwell	7	Red Ash	29	5			28	22,000				
Pennsylvania Coal Co.												
No. 1	6	B or Dunmore No. 1	48			4	36	14,040				
No. 5	4	B or Dunmore No. 3	45			2	14	5,460	10		5,460	
Old Forge	4	B or Dunmore No. 3	30			1	10	6,900	1		6,900	
Underwood	6	B or Dunmore No. 3	50	1			10	4,500	19		96,824	
Price-Pancoast Coal Co.												
Pancoast	4	B or Dunmore No. 3	34	6	15		98	62,515				
Scranton Coal Co.												
Capouse	4	B or Dunmore No. 3	30	2			16	5,760				
Johnson	6	B or Dunmore No. 2	48	3			26	7,500				
Pine Brook	4	B or Dunmore No. 3	46	1			7	7,200	9		246,620	
Total				6			49	20,460	9		246,620	
Temple Coal Co.												
Northwest	1	Dunmore No. 1 Dunmore No. 3	27 29	10			49	3,398				
Grand total				122	20	7	1,343	964,954	92		772,926	

[1] See Susquehanna County.

[2] See Wayne County.

LUZERNE COUNTY

Alden Coal Co.											
Alden	14	Orchard	30		7		9	8,500			
Clifford Coal Co.											
Clifford Stripping	7	Pittston	96			1	16	11,870			
John Conlon Coal Co.											
Madeira	10	Ross	48	2			8	4,000			
Charles M. Dodson & Co.											
Beaver Brook	16	Gamma	36		1	2	16	3,937	1	3,937	
Glen Alden Coal Co.											
Bliss	14	Ross	72	3			28	30,040			
		Twin	54								
Loomis	13	Abbott	30	7			60	10,800			
		No. 6	34								
		Ross	31								
Pettebone	10	Skidmore	30	12			99				
		Five Foot	46								
Total				22			187	40,840			
Grand Tunnel Coal Co.											
West Nanticoke	13	Ross	30		2		32		1	18,761	
Haddock Mining Co.											
Black Diamond	10	Ross Top Split	30			1	5	2,597			
Hillside Coal & Iron Co.											
		Clark	40								
		Stark	36								
Butler	7	Marcy	54	1			13	5,733			
		Pittston	120								
		Red Ash	104								
Hudson Coal Co.											
Baltimore No. 5	11	Baltimore	144	7			43	27,376	1	249	
Baltimore Tunnel	11	Baltimore	144	2			27	8,445	1	6,334	
Laflin	7	Marcy	60	1			3	753			
		Red Ash	36								
Loree No. 5—Boston	12	Hillman	101	9	1		55	34,834			
Pine Ridge	10	Five Foot	38								
Pine Ridge Shaft		Top Red Ash	36	10			57	37,954			
		Three Foot	40								
		Checker	48								
Delaware Shaft		Top Ross	30	14			80	54,668			
		Ross	36								
		Three Foot	40								
Total				43	1		265	164,030	2	6,583	

Table 6—Showing coal seam worked, machinery used, number of employes and number of tons produced by mechanical mining, 1928—Continued

Operators and Collieries	District	Geological and local name of coal bed	Average height of seam—in inches	Mechanical mining					Machine mining (all methods)			
				Number of scraper units	Number of conveyor units	Number of loading machines	Number of employes engaged in this class of work	Number of tons of coal produced by this class of mining	Mining machines: Electric	Mining machines: Compressed air	Approximate tons produced by electric machines	Approximate tons produced by compressed air machines
LUZERNE COUNTY—Cont'd.												
George F. Lee Coal Co.												
Chauncey	13	Ross	30		38		80	58,760				
Lehigh Valley Coal Co.												
Exeter	9											
Checker Shaft		F or Checker	78	1			6					
Old Shaft		E or Pittston	60			1	8	5,936				
Red Ash Shaft		B or Red Ash	42	2			12					
Maltby	9	C or Top Ross	25	1			7	4,683				
Total				4		1	33	10,619				
Mt. Lookout Coal Co.												
Mt. Lookout	9											
No. 1 Shaft		C or Top Ross	39	2			8	4,950				
		B or Red Ash	57				6		3		13,465	
Pennsylvania Coal Co.												
Ewen	8			12	1		112	66,269	6		37,296	
No. 6	8			1			7	4,827				
No. 9	8			2			29	19,308				
Total				15	1		148	90,404	6		37,296	
Scranton Anthracite Coal Co.												
Barnum	7	Red Ash	24	4	1		22	47,189				
		Pittston	89									
Pickaway	7	Red Ash	24	1	1		18	15,055				
Total				5	2		40	62,244				

Susquehanna Collieries Co.												
No. 6	14	Top Ross	30	3			21	34,754				
No. 7	14	Twin Orchard	36 36	2			18	18,827				
Total				5			39	53,581				
Temple Coal Co.												
Harry E	9	C or Bottom Ross	48	3			15	14,450				
West End Coal Co.												
West End	14	Ross Top Red Ash Red Ash	58 30 60	3	17	1	76	26,411				
Grand total				105	69	6	996	562,926	13		80,042	
NORTHUMBERLAND COUNTY												
Colonial Colliery Co.												
Colonial	23	Lykens Valley No. 1 Lykens Valley No. 2 Buck Mountain No. 4 Buck Mountain Split No. 5 Seven Foot No. 6 Skidmore No. 7 Mammoth No. 8 Holmes No. 10	48 30 46 30 30 54 150 30	16	29		106	143,350				
No. 6		Seven Foot No. 6	54	10	1		50	44,310	3		6,090	
Total				26	30		156	187,660	3		6,090	
Phila. & Reading Coal & Iron Co.												
Alaska	23	Buck Mountain No. 5 Skidmore No. 7 Mammoth No. 8 Holmes No. 10	50 52 148 58	7	8		59	40,514	1		5,456	
Burnside	24	Buck Mountain No. 5	80		1		6	3,542				
Locust Spring	23											
Shaft		Seven Foot No. 6 Skidmore No. 7 Mammoth No. 8 Four Foot No. 9 Holmes No. 10 Diamond No. 13	32 48 240 48 60 52		3		6	3,216				
Reliance	23	Lykens Valley No. 2 Buck Mountain No. 5 Skidmore No. 7 Mammoth No. 8 Four Foot No. 9	72 52 54 180 48	1	7		18	9,053				

Table 6—Showing coal seam worked, machinery used, number of employes and number of tons produced by mechanical mining, 1928—Concluded

Operators and Collieries	District	Geological and local name of coal bed	Average height of seam—in inches	Mechanical mining					Machine mining (all methods)			
				Number of scraper units	Number of conveyor units	Number of loading machines	Number of employes engaged in this class of work	Number of tons of coal produced by this class of mining	Mining machines: Electric	Mining machines: Compressed air	Approximate tons produced by electric machines	Approximate tons produced by compressed air machines
NORTHUMBERLAND COUNTY—Cont'd.												
Phila. & Reading Coal & Iron Co.—Cont'd.		Holmes No. 10	54									
Reliance—Cont'd.	23	Primrose No. 11	52									
Total				8	19		89	56,325	1		5,456	
Grand total				34	49		245	243,985	4		11,546	
SCHUYLKILL COUNTY												
Hazle Brook Coal Co.												
		Little Buck Mountain	36									
Raven Run	21	Buck Mountain	120	11			56	85,386				
		Mammoth	144									
Phila. & Reading Coal & Iron Co.												
Otto	19	Primrose	110		10		20	57,100				
		White Ash Mammoth	98		14		28					
Pine Knot	19	Seven Foot	48		4		12	13,000				
		Bottom Split Mammoth	84		3		9					
Wadesville	18	Seven Foot	44		7		28	11,635				
		Skidmore	51									
Total					38		97	81,735				
Pine Hill Coal Co.												
Pine Hill	19	Seven Foot	47		7		37	30,949				
Grand total				11	45		190	198,070				

SUSQUEHANNA COUNTY												
Hillside Coal & Iron Co. Forest City	1	Dunmore No. 1	31	2	1		38	42,000	12		12,348	
Hudson Coal Co. Clinton[1]	1											
[1] See Wayne County.												
WAYNE COUNTY												
Hillside Coal & Iron Co. Forest City[2]	1											
Hudson Coal Co. Clinton	1	Dunmore No. 1	36	13			125	87,238				
Grand total all counties				287	184	13	2,937	2,099,173	121		876,862	

[2] See Susquehanna County.

Table 7—Number of each class of employes inside, 1927

County	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
Carbon	11	13	65	1,065	255	--------	--------	72	63	94	92	16	472	22	24	19	653	2,936
Columbia	9	33	--------	520	123	--------	--------	26	23	78	45	27	130	14	2	27	291	1,348
Dauphin	3	9	23	610	132	--------	--------	14	14	118	21	22	273	43	9	18	280	1,589
Lackawanna	102	427	115	9,918	10,116	172	841	767	799	1,412	740	120	541	320	198	260	3,601	30,449
Luzerne	185	641	428	18,934	14,301	93	375	1,068	1,066	3,206	1,236	501	1,460	620	253	1,014	6,078	52,359
Northumberland	38	159	74	5,527	1,340	3	3	120	108	500	187	219	601	135	31	104	1,774	10,923
Schuylkill	111	458	203	11,543	3,479	--------	--------	300	243	1,286	485	638	2,171	303	94	185	5,173	26,672
Sullivan	2	5	--------	223	88	12	12	18	26	7	19	--------	30	9	4	--------	26	481
Susquehanna	4	8	--------	329	125	50	12	24	18	13	18	4	--------	14	6	13	55	693
Wayne	2	15	--------	143	240	--------	--------	15	10	9	16	1	2	6	3	--------	40	502
Total	467	1,768	908	48,812	30,199	330	1,243	2,424	2,370	6,723	2,859	1,548	5,680	1,486	624	1,640	18,871	127,952

Table 7—Number of each class of employes inside, 1928

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
CARBON COUNTY																			
Coleraine Colliery Co.																			
Coleraine Washery	16	1	-------	1	16	16	-------	-------	-------	-------	2	1	1	-------	-------	-------	-------	3	41
Coxe Brothers & Co. Inc.																			
Beaver Meadow	16	3	6	-------	158	140	-------	-------	7	7	36	22	6	14	1	1	6	27	434
Evans Colliery Co.																			
Evans	16	1	1	-------	84	18	-------	-------	-------	-------	12	2	2	6	10	1	-------	10	147
Lehigh Coal & Navigation Co.																			
Coaldale [1]	17	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Lansford	17	2	6	35	325	8	-------	-------	32	27	23	22	4	306	6	8	5	285	1,094
Nesquehoning	17	3	1	29	343	42	-------	-------	30	29	12	33	3	188	-------	12	8	299	1,032
Total	-----	5	7	64	668	50	-------	-------	62	56	35	55	7	494	6	20	13	584	2,126
Lehigh Valley Coal Co.																			
Spring Brook	16	1	2	-------	46	49	-------	-------	1	1	8	4	-------	36	5	1	-------	28	182
Grand total	-----	11	16	65	972	273	-------	-------	70	64	93	84	16	550	22	23	19	652	2,930
[1] See Schuylkill County.																			
COLUMBIA COUNTY																			
Hazle Brook Coal Co.																			
Mid-valley	22	1	1	-------	26	14	-------	-------	2	1	4	2	-------	2	1	1	1	9	65
Lehigh Valley Coal Co.																			
Centralia	22	4	19	-------	257	33	-------	-------	22	22	20	30	24	33	5	1	12	125	607
Phila. & Reading Coal & Iron Co.																			
Potts	22	1	11	-------	237	21	-------	-------	4	-------	28	-------	12	-------	6	-------	7	123	450
Grand total	-----	6	31	-------	520	68	-------	-------	28	23	52	32	36	35	12	2	20	257	1,122

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
DAUPHIN COUNTY																			
Susquehanna Collieries Co.																			
Short Mountain	25	1	4	10	216	58	10	10	7	7	39	4	8	119	49	6	3	102	653
Williamstown	25	2	5	14	410	79	-------	-------	7	7	70	18	13	126	17	2	13	209	992
Grand total	-----	3	9	24	626	137	10	10	14	14	109	22	21	245	66	8	16	311	1,645
LACKAWANNA COUNTY																			
Beardslee & Lewis Coal Co.																			
Stone Quarry	1	1	-------	-------	14	16	-------	-------	-------	-------	-------	1	-------	-------	1	-------	-------	1	34
Childs Coal Co.																			
No. 1 Mine	2	1	-------	-------	4	3	-------	-------	-------	-------	1	-------	-------	-------	-------	-------	-------	-------	9
D. F. M. Co.																			
No. 1 Mine	2	1	-------	-------	7	7	-------	-------	-------	-------	2	-------	-------	-------	-------	-------	-------	-------	17
Dunmore Anthracite Coal Co.																			
Dunmore	6	1	-------	-------	10	13	-------	-------	-------	-------	2	1	-------	2	-------	1	-------	-------	30
John Gibbons Coal Co.																			
Gibbons	5	1	-------	-------	6	6	-------	-------	1	1	2	2	-------	2	-------	-------	-------	-------	21
Glen Alden Coal Co.																			
Archbald	5	1	9	-------	287	293	-------	-------	26	27	-------	17	2	5	3	5	3	187	865
Baker	5	4	14	-------	298	312	-------	-------	42	49	3	30	6	49	12	11	2	168	1,000
Diamond	3	3	13	6	389	395	1	1	32	32	24	34	7	15	12	9	7	158	1,138
Hampton Plant	5	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	3	-------	-------	-------	3
Hyde Park	5	4	9	-------	289	318	6	5	44	12	-------	16	2	17	12	9	8	299	1,050
Pyne	4	1	11	-------	252	270	-------	-------	27	26	-------	10	2	7	7	4	-------	228	845
Storrs	6	5	23	14	628	769	4	6	55	58	6	38	19	43	13	14	13	350	2,058
Taylor	4	3	12	3	311	326	-------	-------	36	36	-------	17	4	11	11	9	3	192	974
Total	-----	21	91	23	2,454	2,683	11	12	262	240	33	162	42	147	73	61	36	1,582	7,933

Glendale Anthracite Collieries																		
Glendale	1	1	5	2	117	135			4	4	29	7	2	2	6	2	12	328
Green Ridge Coal Co.																		
Green Ridge	4	1	1		40	42			3	3	4	2		2		1	6	105
Grove Hill Coal Co.																		
Lackawanna	6	1	1		14	16					4	2		2			8	48
Hillside Coal & Iron Co.																		
Forest City [1]	1																	
Hudson Coal Co.																		
Clinton [2]	1																	
Coal Brook	2	1	24		383	372	8	142	49	48	10	38	8	8	11	4	4	108	1,218
Eddy Creek	3	3	27	10	481	448	8	84	25	29	122	17	12	8	12	2	23	202	1,513
Gravity Slope	2	1	19		304	288	5	33	21	21	43	26	4	31	10	2	2	80	890
Greenwood	5		9		143	40			11		22	8			3	1		41	278
Jermyn	2	1	18		232	261	18	158	27	28	2	27	2	6	1	2	9	93	885
Marvine	3	3	33	11	339	418	23	147	39	41	66	55	3	64	7	5	9	133	1,396
Olyphant	6	2	26	11	367	490	14	116	25	25	77	20	5	9	7	3	14	199	1,410
Powderly	2	1	19		249	394		1	13	13	61	26		10	2	2	2	45	838
Total		12	175	32	2,498	2,711	76	681	210	205	403	217	34	136	53	21	63	901	8,428
Humbert Coal Co.																		
Sunnyside	1	1	2		75	75			4	4	7	2	1	1	1			2	175
Jermyn & Co.																		
Jermyn	4	3	11		182	182					64	12		8	10	1	6	22	501
Laekawanna Anthracite Mining Co.																		
Richmondale	1	1	1		50	71	4	3	3	3	3	3	1	3	2	1	1	11	161
Lackawanna Coal Co., Ltd.																		
Lackawanna	6	4	5	4	136	10	16	69	12	13	2	9	3	21	12	4	2	67	389
Lackawanna Valley Fuel Co.																		
Old Buffalo	1	1	1		6	9					3								20
Langcliffe Collieries Inc.																		
Boland	1	1	2		38	37					11	2			2	1		1	95
Tappans	2	1	1		56	28			2	2	10	2				1		5	108
Total		2	3		94	65			2	2	21	4			2	2		6	203
Lehigh Valley Coal Co.																		
Broadwell	7	1	1		31	37			3	3		4	1	2	4	1	3	8	99
Lincoln Coal Co.																		
Oak Run	2	1			22	22			2	2		1			1			4	55
Meadowside Coal Co.																		
Meadowside	6	2			34	43					15	2						9	105
Mid-City Coal Co.																		
Bull's Head	3	1	4	1	43	59			6	6	4	3		8	2	1		8	146
Mine Run Coal Co.																		
Devil's Eyebrow Mine	1	1			13	13					3								30

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
LACKAWANNA COUNTY—Cont'd.																			
Moffat Coal Co.																			
Moffat	5	2			45	59					12	4		2				6	130
Murrin Coal Co.																			
Fallbrook	1	1	1		28	28			1	1	9	2		4					75
Namura Coal Co.																			
Namura	5	1			4	5												2	12
Pennsylvania Coal Co.																			
Erie Mine	2	1	3		164	179			10	10	15	8		1	3	3	3	19	419
No. 1	6	4	7	7	415	476	2		48	45	1	28		18	7	12	22	90	1,182
No. 5	4	1	5	3	104	133	2	1	12	12	19	14	1	39	5	8	5	75	439
Old Forge	4	3	9		329	319	1	8	26	26	3	23	1	21	9	11	5	35	829
Underwood	6	4	10	6	409	388	9	7	52	52		31	8		9	16	7	116	1,124
Total		13	34	16	1,421	1,495	14	16	148	145	38	104	10	79	33	50	42	335	3,993
Price-Pancoast Coal Co.																			
Pancoast	4	3	11		96	159			17	17	7	7	2	12	10	6	2	64	413
Public Service Coal Co.																			
Marshwood	6	1	1		70	76					24	3		6		1		18	200
Racket Brook Coal Co.																			
Racket Brook	1	1	5		133	68			13	18	2	8		2	3		3	13	269
Raub Coal Co.																			
Austin Tunnel	7	1	2		46	51			3		13	2		2				3	123
Roaring Brook Coal Co.																			
Roaring Brook	4	1	1		20	20					6	2		1				2	53
Scranton Coal Co.																			
Capouse	4	1		5	167	233			8	8	35	8	7	3	6	2	4	31	518
Johnson	6	1	3	4	169	213			7	7	27	11	2	11	11	1		29	496
Mt. Pleasant	4	1	1	2	56	75			5	5	20	3	1	21	3		4	17	214
Ontario	6	3	5	1	219	114			6	6	42	12	2	1	11	1	3	29	455
Pine Brook	4	1	2	10	311	322	3	26	21	22	120	26	8	35	16	13	39	69	1,044

Raymond Mine	2	1	4	-------	153	168	-------	-------	6	6	39	9	-------	-------	9	2	12	30	439
Richmond No. 3	6	1	1	1	35	42	-------	-------	-------	-------	16	3	2	1	3	-------	2	10	117
Riverside	2	1	2	1	182	88	-------	-------	3	3	42	7	4	-------	9	2	3	32	379
West Ridge	3	1	-------	-------	1	27	-------	-------	-------	-------	-------	-------	-------	-------	1	-------	-------	1	31
Total	-----	11	18	24	1,293	1,282	3	26	56	57	341	79	26	72	69	21	67	248	3,693
South Penn Collieries Co.																			
Legitts Creek	3	1	12	9	182	264	-------	-------	14	20	23	22	4	8	22	11	2	48	642
Von Storch	3	1	8	4	153	250	-------	-------	14	16	30	24	2	20	9	11	3	65	610
Total	-----	2	20	13	335	514	-------	-------	28	36	53	46	6	28	31	22	5	113	1,252
Spencer Coal Co.																			
Spencer	6	1	6	-------	74	70	-------	-------	-------	-------	23	4	-------	-------	-------	2	-------	4	184
Temple Coal Co.																			
Northwest	1	1	2	-------	130	49	12	32	4	5	18	13	1	-------	4	-------	3	22	296
Sterrick Creek	2	1	6	5	165	176	-------	-------	4	4	64	10	1	9	7	1	6	78	557
Total	-----	2	8	5	295	225	12	32	8	9	82	23	2	9	11	1	9	100	833
Throop Coal Co.																			
Crippen	6	1	-------	-------	5	5	-------	-------	-------	-------	2	1	-------	1	-------	-------	-------	1	16
West Jermyn Coal Co.																			
West Jermyn	2	1	-------	-------	8	7	-------	-------	-------	-------	3	-------	-------	-------	-------	-------	-------	-------	19
Grand total	-----	101	408	120	9,723	10,282	136	839	786	769	1,217	719	130	554	324	199	239	3,556	30,102

[1] See Susquehanna County.
[2] See Wayne County.

LUZERNE COUNTY

Alden Coal Co.																			
Alden	14	1	1	5	217	228	1	1	6	6	91	4	8	10	4	-------	18	81	682
Buck Mountain Coal Mining Co.																			
Gowen	15	1	5	-------	78	10	-------	-------	5	5	7	2	-------	14	2	-------	-------	8	137
John Conlon Coal Co.																			
Conlon	10	1	1	1	11	14	-------	-------	-------	-------	10	1	-------	5	-------	-------	-------	-------	44
Madeira	10	1	4	3	130	133	-------	-------	5	6	16	5	2	2	6	2	-------	20	535
Total	-----	2	5	4	141	147	-------	-------	5	6	26	6	2	7	6	2	-------	20	379
Coxe Brothers & Co., Inc.																			
Deringer & Tomhicken	15	5	11	-------	358	210	-------	-------	17	17	29	18	6	24	1	6	1	20	723
Drifton	15	4	7	-------	196	18	-------	-------	5	4	40	13	3	20	5	1	3	25	344
Eckley & Buck Mountain	15	2	6	-------	137	46	-------	-------	-------	-------	63	6	-------	18	4	-------	-------	4	286
Total	-----	11	24	-------	691	274	-------	-------	22	21	132	37	9	62	10	7	4	49	1,353

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
LUZERNE COUNTY—Cont'd.																			
R. M. Cranston																			
Cranston	8	1			8	12													21
Charles M. Dodson & Co.																			
Beaver Brook	16	1	7		102	65	2	2	6	6	8	4		15	5	1		27	251
East Alden Mining Co.																			
East Alden	14	1		1	14	10							1	2	2	1		7	39
East Boston Coal Co.																			
East Boston	10	1	4	6	145	112					85	7	1	20	21	2	10	80	494
Fox Hill Mining Co.																			
Fox Hill	10	1		1	11	14					7	1		2	3				40
Glen Alden Coal Co.																			
Auchincloss	14	1	5	5	250	119			12	11	2	8	8	15	3	2	9	79	529
Avondale	13	1	3	4	120	116			11	11	10	6	6	17	11	3	9	107	435
Bliss	14	2	20	1	297	203		28	27	25	41	20	13	29	9	4	6	196	921
Hallstead	7	1	4		130	123			10	10	15	8	1	4	5	3	4	91	409
Loomis	13	4	12	14	589	383	1	1	52	56	35	29	33	87	6	9	28	194	1,533
Pettebone	10	3	18		273	245	11	88	29	28	16	24	13	30	5	7	4	169	963
Truesdale	13	6	34		766	645			71	68	16	41	43	54	27	21	31	495	2,318
Woodward	12	5	27	10	475	323			43	42	40	30	20	33	14	13	18	226	1,319
Total		23	123	34	2,900	2,157	12	117	255	251	175	166	137	269	80	62	109	1,557	8,427
Grand Tunnel Coal Co.																			
West Nanticoke	13	1	1	1	52	64	1	1			30	5	3	5	6	1		32	203
Haddock Mining Co.																			
Black Diamond	10	1	9	3	129	142	1	4	6	15	36	12	6	26	13	2	6	10	421
Harris-Denly Coal Co.																			
Kintz	9	1	1		13	10					3				1				29
Hazle Brook Coal Co.																			
Hazle Brook	15														1				1
Upper Lehigh	15	1	2		58	56			1	1	15	3	3	4	5	1		3	153

Total		1	2		58	56			1	1	15	3	3	4	6	1		3	154
Hillside Coal & Iron Co.																			
Butler	7	4	12	1	347	372			39	42		32		1	7	11	20	139	1,027
Hudson Coal Co.																			
Baltimore No. 5	11	3	16	12	163	167	8	35	13	13	24	22	11	17	10	5	2	91	612
Baltimore Tunnel	11	1	9	1	111	120	3	24	7	7	17	13		6				36	355
Laflin	7	1	6		94	39	1	2	5	4	12	6			2	1		38	211
Loree No. 5—Boston	12	5	51	8	644	624	10	45	19	14	196	64	22	67	10	2	24	244	2,049
Pine Ridge	10	4	41	6	526	398	22	115	27	25	113	45	11	10	12	3		149	1,507
Total		14	123	27	1,538	1,348	44	221	71	63	362	150	44	100	34	11	26	558	4,734
Jeddo-Highland Coal Co.																			
Highland No. 2	15	2	1	1	42	36			4	4	1	7	2	17	6		1	3	127
Highland No. 5	15	3	7	6	208	202			12	12	17	10	6	20	2		9	54	568
Jeddo No. 4	15	6	11	7	286	272			17	17	10	19	11	83	2	2	14	28	785
Jeddo No. 7	15	1	2		43	36					5	2		10	1			6	106
Total		12	21	14	579	546			33	33	33	38	19	130	11	2	24	91	1,586
Kingston Coal Co.																			
Gaylord	12	1	4	1	77	66			2	2	23	4	1	2	2		1	22	208
Kingston No. 2	12	3	7	5	219	159			16	14	28	15	7	50	4	4	3	43	577
Kingston No. 4	9	2	5	7	190	161			6	4	59	12	5	12	14	4	8	33	522
Total		6	16	13	486	386			24	20	110	31	13	64	20	8	12	98	1,307
Langcliffe Collieries Inc.																			
Avoca	7	1	3		60	60			4	4	11	3		14	4	2		20	186
George F. Lee Coal Co.																			
Chauncey	13	1	2		83	95			5	7	24	7	1	16	3	4		21	269
Lehigh Coal & Navigation Co.																			
Cranberry	16	1	14		197	168			18	20	9	10		82	14	1	3	200	737
Lehigh Valley Coal Co.																			
Dorrance	11	3	21		291	174			29	29	57	35	25	41	7	10	25	142	889
Exeter	9	2	18		311	151			17	18	54	19	5	14	16	4	7	53	689
Franklin	11	4	15		198	80			2	2	63	18	6	20	11	2	10	71	502
Hazleton No. 1	15	2	9		218	30			6	5	15	13	8	59	5	6	4	85	465
Hazleton Shaft & Stockton	15	4	11		269	30			15	15	11	24	3	47	7	7	2	53	498
Heidelberg	7	3	3		63	30					21	7	2	9	1	1		13	153
Maltby	9	1	14		177	113			11	11	57	10	8	3	8	1	10	52	476
Mineral Spring	10	1	13		183	56			5	6	44	17	5	14	8	1	8	52	413
Prospect	9	3	16		202	122			9	10	64	20	10	37	8	2	28	130	661
Prospect (Henry)	10	3	20		235	140			18	15	63	20	12	16	7	2	30	85	666
Seneca	7	2	10		116	106			14	13	12	14	3	10	18	1	2	53	374
Spring Mountain	16	1	7		88	10			8	8	12	11	3	13	3	5	4	52	225

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
LUZERNE COUNTY—Cont'd.																			
Lehigh Valley Coal Co.—Cont'd.																			
Warrior Run	13	2	3	-------	32	25	-------	-------	-------	-------	4	3	-------	5	5	-------	-------	8	87
Westmoreland	9	1	9	-------	121	72	-------	-------	10	10	15	8	2	8	9	2	7	28	302
William A.	7	1	7	-------	104	98	-------	-------	5	5	34	11	1	14	11	1	5	14	311
Total		33	176	-------	2,608	1,237	-------	-------	149	147	526	230	93	310	124	45	142	891	6,711
Lehigh & Wilkes-Barre Coal Co.																			
Buttonwood No. 22	13	2	-------	16	251	233	-------	-------	5	5	68	20	9	9	7	1	42	145	813
Hollenback No. 2	11	1	1	12	232	168	-------	-------	3	3	50	13	8	82	6	-------	38	60	677
Lance No. 11	12	1	1	13	347	228	-------	-------	16	26	76	18	10	33	10	1	56	95	931
Maxwell No. 20	13	1	1	17	563	325	-------	-------	17	26	74	17	14	-------	11	1	5	284	1,356
Nottingham No. 15	12	2	1	16	277	239	-------	-------	12	18	49	21	3	19	11	3	26	109	806
So. Wilkes-Barre No. 5	11	1	2	16	335	231	-------	-------	7	7	61	6	4	23	4	-------	77	182	956
Stanton No. 7	11	2	1	26	568	366	-------	-------	14	19	102	23	11	32	9	1	75	191	1,440
Sugar Notch No. 9	13	1	1	11	351	250	-------	-------	12	18	42	12	10	-------	10	1	52	145	916
Wanamie No. 18	14	2	-------	17	446	426	-------	-------	21	22	56	15	12	-------	6	4	22	127	1,176
Total		13	8	144	3,370	2,466	-------	-------	107	144	578	145	81	198	74	12	393	1,338	9,071
Lehigh-Wyoming Valley Coal Co.																			
Florence	7	1	1	-------	42	37	-------	-------	2	2	10	4	2	4	2	3	2	30	142
Miners Mills Coal Mining Co.																			
Miners Mills	10	1	3	1	61	53	-------	-------	-------	-------	12	2	-------	3	1	-------	-------	4	141
Mt. Lookout Coal Co.																			
Mt. Lookout	9	1	4	4	142	94	3	3	14	16	16	5	3	5	7	6	-------	46	369
Pardee Brothers & Co. Inc.																			
Beaver Brook	16	1	5	-------	104	50	-------	-------	6	6	7	6	-------	13	5	-------	-------	13	216
Lattimer	15	2	10	7	468	34	-------	-------	3	3	36	22	5	34	1	2	4	40	671
Total		3	15	7	572	84	-------	-------	9	9	43	28	5	47	6	2	4	53	887

Pennsylvania Coal Co.																			
Central	7	2	3	1	148	152			14	14	6	13	2		5	4	9	69	442
Ewen	8	4	10	9	281	457	4	3	35	35	43	41	11	6	19	15	13	178	1,164
No. 6	8	3	12	10	403	450			22	22	125	35	3		7	7	21	179	1,299
No. 9	8	5	11	9	449	436			56	56	35	40	7	7	13	12	26	190	1,352
No. 14	8	4	11	11	455	412			43	43	45	34	8	7	9	10	19	171	1,282
Total		18	47	40	1,736	1,907	4	3	170	170	254	163	31	20	53	48	88	787	5,539
Pittston Coal Mining Co.																			
Hadleigh	13	1	2	1	44	37			5	5	12	5		3	4			2	121
Plymouth Red Ash Coal Co.																			
Red Ash	12	1	1		20	20					5	2							49
T. F. Quinn Coal Co.																			
Consolidated	7	1	3		46	50					8							15	123
Raub Coal Co.																			
Louise	10	3	2		76	54			6		21	5		2	1			9	179
Sandy Run Coal Co.																			
Sandy Run	15	1	3		61	17					15	3		25	3	1		1	130
Scranton Anthracite Coal Co.																			
Barnum	7	1	1	1	16	16					2	2	2			1	1	25	68
Pickaway	7	1	1		10	10			1	1	1	1			1	1		28	56
Total		2	2	1	26	26			1	1	3	3	2		1	2	1	53	124
E. S. Stackhouse Coal Co.																			
Salem	14		2		30	31			5	5		3						4	80
Sullivan & Flynn Coal Co.																			
Sullivan & Flynn	11	1			12	15					1			2	1			8	40
Suscon Coal Co.																			
Suscon	9	1			5	4					2	1						1	14
Susquehanna Collieries Co.																			
No. 6	14	2	11	13	330	388			23	31	55	28	14	38	13			130	1,076
No. 7	14	5	7	30	661	617			40	43	70	38	16	65	15		34	226	1,867
Total		7	18	43	991	1,005			63	74	125	66	30	103	28		34	356	2,943
Temple Coal Co.																			
Harry E.	9	2	8	8	290	114			5	6	102	10	5	37	14	2	21	101	725
Troy Coal Co.																			
Troy	9	1	1		18	8					6	1		1	1	1		8	46
West End Coal Co.																			
West End	14	3	16	3	220	234			28	28		20	3		5	12		87	659
Wolf Collieries Co. Inc.																			
Wolf Mine	15	1	1		27	17					8	2	2	2	3				63
Yatesville Coal Co.																			
Yatesville	9	1	2		38	38					12	2		1	1	1	2	7	105
Grand total		182	688	362	18,284	13,824	68	352	1,064	1,107	2,923	1,218	504	1,606	581	253	919	6,802	50,737

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Brattiemen	Timbermen and roekmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
NORTHUMBERLAND COUNTY																			
Colonial Colliery Co.																			
Colonial	23	9	5	-------	524	112	2	2	26	15	60	16	24	54	21	10	5	90	975
Execlsior Coal Co.																			
Corbin	24	1	1	2	49	24	-------	-------	-------	-------	13	3	1	5	-------	-------	-------	1	100
Lehigh Valley Coal Co.																			
Sayre	22	3	17	-------	312	91	-------	-------	16	16	14	25	25	28	9	1	14	70	641
Northumberland Mining Co.																			
Enterprise	24	1	8	-------	377	44	-------	-------	10	10	51	20	8	31	19	8	5	66	658
Phila. & Reading Coal & Iron Co.																			
Alaska	23	2	8	-------	314	20	-------	-------	5	4	29	9	22	-------	6	-------	1	62	482
Bear Valley	24	2	14	-------	317	87	-------	-------	10	10	20	6	20	11	6	-------	6	90	599
Burnside	24	2	15	-------	442	88	-------	-------	6	6	58	6	38	10	8	-------	3	97	779
Henry Clay	24	2	13	-------	300	40	-------	-------	1	1	39	2	13	7	2	-------	4	89	513
Locust Spring	23	4	19	-------	469	24	-------	-------	3	2	67	12	27	1	9	-------	6	151	794
North Franklin	24	1	12	-------	95	31	-------	-------	4	3	9	3	28	13	4	-------	2	27	232
Reliance	23	1	7	-------	266	33	-------	-------	3	4	20	3	11	19	8	-------	1	100	476
Total	-----	14	88	-------	2,203	323	-------	-------	32	30	242	41	159	31	43	-------	23	616	3,875
Shamokin Coal Co.																			
Neilson	24	1	1	5	132	55	-------	-------	-------	-------	13	3	4	12	3	-------	-------	13	242
South Penn Collieries Co.																			
Katherine	24	1	1	-------	35	9	-------	-------	2	1	1	-------	-------	-------	-------	-------	-------	3	53
Susquehanna Collieries Co.																			
Cameron	24	1	4	13	307	62	-------	-------	6	6	5	20	16	76	15	2	9	90	632
Luke Fidler	24	2	2	9	379	79	-------	-------	4	4	6	10	11	21	5	2	7	87	628
Pennsylvania	23	2	3	13	363	111	-------	-------	11	11	11	8	15	68	8	2	12	166	804
Richards	23	1	4	13	487	90	-------	-------	7	7	20	6	13	91	5	2	5	160	911

Scott	23	1	3	13	389	114	-------	-------	7	7	16	10	15	78	3	2	3	126	787
Total	-----	7	16	61	1,925	456	-------	-------	35	35	58	54	70	334	36	10	36	629	3,762
Grand total	-----	37	137	68	5,557	1,114	2	2	121	107	452	162	291	525	131	29	83	1,488	10,306
SCHUYLKILL COUNTY																			
Black Heath Coal Co.																			
Black Heath	19	1	-------	-------	8	-------	-------	-------	-------	-------	3	-------	-------	-------	-------	-------	-------	-------	12
Buck Run Coal Co.																			
Buck Run	19	1	2	10	243	106	-------	-------	12	12	21	6	6	7	4	2	1	51	484
Chestnut Hill Coal Co.																			
Chestnut Hill	18	1	1	-------	14	14	-------	-------	-------	-------	2	1	1	-------	1	-------	-------	2	37
Coxe Brothers & Co., Inc.																			
Oneida	16	3	8	-------	178	36	4	-------	4	4	39	11	4	44	-------	-------	2	30	367
East Bear Ridge Colliery Co.																			
East Bear Ridge	22	1	-------	6	151	38	-------	-------	6	6	8	5	8	37	5	2	2	61	336
Frackville Coal Co.																			
Lucanna	18	1	1	-------	51	-------	-------	-------	1	1	15	2	-------	5	1	-------	-------	2	80
Gorman & Campion Coal Co.																			
Bell	18	1	1	1	46	3	-------	-------	4	4	2	2	-------	1	-------	1	-------	9	75
Haddock Mining Co.																			
Candlemas	16	6	9	-------	295	275	-------	-------	2	2	78	11	5	1	23	-------	6	25	738
Salem Hill	18	1	2	-------	15	16	-------	-------	1	-------	-------	2	-------	-------	-------	-------	-------	3	40
Total	-----	7	11	-------	310	291	-------	-------	3	2	78	13	5	1	23	-------	6	28	778
Harleigh-Brookwood Coal Co.																			
Lawrence	22	2	4	8	266	42	-------	-------	10	10	35	8	4	38	22	4	-------	82	535
Thomas	21	1	11	-------	114	62	-------	-------	4	1	11	3	-------	13	4	-------	-------	30	254
Total	-----	3	15	8	380	104	-------	-------	14	11	46	11	4	51	26	4	-------	112	789
Hazle Brook Coal Co.																			
Girard	22	1	1	3	60	-------	-------	-------	6	6	2	3	1	8	3	1	3	13	111
Maryd	18	1	1	4	110	20	-------	-------	5	-------	12	2	2	18	6	-------	3	44	228
Raven Run	21	1	2	-------	76	52	-------	-------	4	4	5	4	2	4	2	1	-------	23	180
Westwood	25	1	3	-------	94	13	-------	-------	4	4	3	2	4	13	2	-------	-------	40	183
Total	-----	4	7	7	340	85	-------	-------	19	14	22	11	9	43	13	2	6	120	702
Laurel Coal Mining Co.																			
Bickle	22	1	1	1	38	7	-------	-------	-------	-------	6	-------	-------	3	-------	-------	-------	-------	57
Lehigh Coal & Navigation Co.																			
Alliance	18	2	-------	7	256	9	-------	-------	8	8	17	2	11	39	-------	1	1	162	523
Coaldale	17	3	5	28	443	8	-------	-------	27	28	21	17	6	182	-------	14	-------	327	1,109
Greenwood	17	1	2	13	210	-------	-------	-------	18	11	5	9	3	141	-------	6	10	174	603

Table 7—Number of each class of employes inside, 1928—Continued

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
SCHUYLKILL COUNTY—Cont'd.																			
Lehigh Coal & Navigation Co.—Cont'd.																			
Rahn	17	2	2	19	246	-------	-------	-------	15	15	20	19	3	47	4	10	10	191	603
Tamaqua	18	2	4	14	165	33	-------	-------	15	13	15	9	-------	141	-------	5	7	235	658
Total	-----	10	13	81	1,320	50	-------	-------	83	75	78	56	23	550	4	36	28	1,089	3,496
Lehigh Valley Coal Co.																			
Buck Mountain	18	2	19	-------	323	85	-------	-------	1	-------	41	16	14	19	6	2	8	80	616
Packer No. 2	21	1	9	-------	153	37	-------	-------	15	14	-------	15	12	26	7	2	6	49	346
Packer No. 3	21	1	6	-------	101	17	-------	-------	2	2	7	10	1	17	3	1	1	14	183
Packer No. 4	21	1	7	-------	89	6	-------	-------	7	6	-------	14	3	9	4	3	2	48	199
Packer No. 5	21	1	14	-------	195	44	-------	-------	14	13	4	14	12	18	3	6	8	69	415
Park	20	3	18	-------	304	200	-------	-------	8	8	37	9	6	10	7	9	2	83	704
Total	-----	9	73	-------	1,165	389	-------	-------	47	43	89	78	48	99	30	23	27	343	2,463
Lehigh & Wilkes-Barre Coal Co.																			
Audenried No. 4	16	2	3	3	303	341	-------	-------	3	3	42	17	1	-------	11	-------	33	5	767
Honey Brook	16	1	3	-------	20	24	-------	-------	-------	-------	4	2	1	-------	-------	3	-------	5	63
Total	-----	3	6	3	323	365	-------	-------	3	3	46	19	2	-------	11	3	33	10	830
Locust Mountain Coal Co.																			
Weston	21	1	-------	7	181	1	-------	-------	12	11	-------	4	2	5	4	-------	-------	47	275
Lytle Coal Co.																			
Lytle	19	1	4	13	242	48	-------	-------	4	3	32	5	7	27	7	2	-------	130	525
Mill Creek Coal Co.																			
Morea	18	3	-------	12	320	43	-------	-------	10	10	25	12	3	16	8	4	-------	49	515
Phila. & Reading Coal & Iron Co.																			
Bancroft	22	1	-------	-------	48	8	-------	-------	-------	-------	10	-------	3	-------	-------	-------	1	4	75
Bast	22	2	10	-------	149	40	-------	-------	3	6	16	7	54	46	9	-------	4	49	395

Brookside	25	3	19	-------	365	63	-------	-------	11	11	34	51	37	55	-------	-------	8	128	785
Eagle Hill	18	2	9	-------	331	73	-------	-------	5	-------	39	5	25	27	3	-------	1	95	615
Ellangowan	20	3	15	-------	277	92	-------	-------	2	6	40	5	23	40	4	-------	3	95	605
Gilberton	22	2	13	-------	287	53	-------	-------	9	8	39	6	23	50	2	-------	1	117	610
Good Spring	25	3	15	-------	277	75	-------	-------	9	11	43	5	54	3	6	-------	5	112	618
Hammond	21	1	7	-------	247	45	-------	-------	10	7	11	14	18	-------	6	-------	-------	65	431
Lincoln	25	2	19	-------	306	83	-------	-------	17	16	34	48	32	53	2	-------	5	179	796
Mahanoy City	20	1	8	-------	266	73	-------	-------	4	3	22	2	24	-------	4	-------	3	49	459
Maple Hill	20	4	18	-------	394	69	-------	-------	-------	-------	48	3	32	27	10	-------	3	120	728
North Mahanoy	20	1	11	-------	302	40	-------	-------	5	3	16	-------	17	-------	5	-------	5	81	486
Otto	19	2	13	-------	209	47	-------	-------	4	4	38	17	29	22	8	-------	-------	81	474
Pine Knot	19	2	19	-------	326	77	-------	-------	6	4	67	4	22	7	11	-------	2	238	785
Reevesdale	18	1	1	-------	109	12	-------	-------	2	2	7	1	5	15	-------	-------	-------	37	192
Shenandoah City	21	2	15	-------	441	115	-------	-------	1	1	36	9	5	56	9	-------	3	58	751
Silver Creek	18	2	7	-------	361	82	-------	-------	12	-------	39	7	17	44	-------	-------	-------	111	682
Tunnel Ridge	20	2	10	-------	274	46	-------	-------	5	4	22	7	17	-------	9	-------	-------	96	492
Wadesville	18	2	13	-------	250	70	-------	-------	8	7	32	8	23	56	3	-------	-------	99	571
West Shenandoah	21	2	15	-------	410	71	-------	-------	6	-------	35	14	9	53	6	-------	2	113	736
Total	-----	40	237	-------	5,629	1,234	-------	-------	119	93	628	213	469	554	97	-------	46	1,927	11,286
Pine Hill Coal Co.																			
Oak Hill	19	1	4	7	281	100	2	8	2	2	33	12	10	14	7	-------	1	55	539
Pine Hill	19	1	3	12	403	100	2	11	6	5	20	14	16	75	14	-------	1	63	746
Total	-----	2	7	19	684	200	4	19	8	7	53	26	26	89	21	-------	2	118	1,285
Reppler Coal Co.																			
New Castle	19	1	1	6	240	37	-------	-------	10	10	21	6	5	6	5	2	3	33	386
Saint Clair Coal Co.																			
Saint Clair	18	2	1	7	194	52	-------	-------	11	14	9	3	5	-------	6	-------	1	34	339
Sherman Coal Corp.																			
Sherman	19	1	1	1	69	13	-------	-------	2	2	13	3	2	12	-------	-------	-------	14	133
South Penn Collieries Co.																			
Randolph	18	1	1	2	104	22	-------	-------	5	4	8	1	2	4	-------	2	-------	2	178
Susquehanna Collieries Co.																			
Wm. Penn	21	1	1	9	209	41	-------	-------	-------	-------	35	18	4	7	10	-------	-------	92	427
Grand total	-----	99	392	193	12,439	3,179	8	19	377	329	1,279	506	635	1,561	276	83	157	4,303	25,835
SULLIVAN COUNTY																			
Connell Anthracite Mining Co.																			
Connell	10	1	4	-------	179	32	14	13	18	28	-------	13	-------	30	10	5	3	11	361
Northern Anthractie Coal Co.																			
Murray	10	1	1	-------	32	32	-------	-------	-------	-------	9	2	-------	1	-------	-------	-------	3	81
Grand total	-----	2	5	-------	211	64	14	13	18	28	9	15	-------	31	10	5	3	14	442

Table 7—Number of each class of employes inside, 1928—Concluded

Operators and Collieries	District	Mine foremen	Assistant mine foremen	Fire bosses	Miners	Miners' laborers	Machine runners	Machine runners' helpers	Motormen	Motormen's assistants	Drivers and runners	Trackmen	Bratticemen	Timbermen and rockmen	Pumpmen and pipemen	Electricians	Doorboys	All other employes	Total inside
SUSQUEHANNA COUNTY																			
Hillside Coal & Iron Co.																			
Forest City	1	4	8	-------	337	107	5	5	23	23	2	14	3	4	13	5	14	73	640
Hudson Coal Co.																			
Clinton[1]	1	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
[1] See Wayne County.																			
WAYNE COUNTY																			
Hillside Coal & Iron Co.																			
Forest City[2]	1	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------
Hudson Coal Co.																			
Clinton	1	1	13	-------	104	199	-------	-------	14	7	3	14	1	-------	4	2	-------	29	391
Vandling Coal Co.																			
Northeast	1	-------	-------	-------	5	4	-------	-------	-------	-------	1	1	-------	-------	-------	1	-------	-------	12
Grand total	-----	1	13	-------	109	203	-------	-------	14	7	4	15	1	-------	4	3	-------	29	403
[2] See Susquehanna County.																			
Grand total all counties	-----	446	1,707	832	48,778	29,251	243	1,240	2,515	2,471	6,140	2,787	1,637	5,111	1,439	610	1,470	17,485	124,162

Table 8—Number of each class of employes outside, 1927

County	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
Carbon	9	17	15	86	154	69	63	42	13	23	659	1,150	2,936	4,086
Columbia	3	8	13	28	77	11	2	54	6	14	322	538	1,348	1,886
Dauphin	2	4	14	52	71	41	13	10	--------	23	358	588	1,589	2,177
Lackawanna	48	93	174	508	738	247	142	497	259	343	4,190	7,239	30,449	37,688
Luzerne	69	193	285	1,012	1,924	380	256	950	348	427	8,412	14,256	52,359	66,615
Northumberland	13	38	66	192	468	73	55	293	134	144	2,241	3,717	10,923	14,640
Schuylkill	40	127	193	702	1,658	259	284	603	391	319	7,159	11,735	26,672	38,407
Sullivan	2	2	5	9	23	4	4	15	12	4	73	153	481	634
Susquehanna	1	1	3	16	28	5	8	25	1	5	79	172	693	865
Wayne	2	3	4	5	16	7	--------	--------	4	19	88	148	502	650
Total	189	486	772	2,610	5,157	1,096	827	2,489	1,168	1,321	23,581	39,696	127,952	167,648

Table 8—Number of each class of employes outside, 1928

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
CARBON COUNTY															
Coleraine Colliery Co.															
Coleraine Washery	16	1	2	1	1	4	1	----	----	----	1	11	22	41	63
Coxe Brothers & Co., Inc.															
Beaver Meadow	16	----	1	3	9	24	5	4	4	2	3	120	175	434	609
Evans Colliery Co.															
Evans	16	1	1	2	2	6	----	2	17	4	2	23	60	147	207
Lehigh Coal & Navigation Co.															
Coaldale[1]	17	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Lansford	17	3	4	4	36	51	44	27	3	----	5	220	397	1,094	1,491
Nesquehoning	17	5	8	6	36	65	23	28	10	6	6	286	479	1,032	1,511
Total	----	8	12	10	72	116	67	55	13	6	11	506	876	2,126	3,002
Lehigh Valley Coal Co.															
Spring Brook	16	----	1	1	2	9	3	2	----	----	2	19	39	182	221
Grand total	----	10	17	17	86	159	76	63	34	12	19	679	1,172	2,930	4,102
[1] See Schuylkill County.															
COLUMBIA COUNTY															
Hazle Brook Coal Co.															
Mid-Valley	22	1	1	1	3	6	1	----	----	3	2	21	39	65	104
Lehigh Valley Coal Co.															
Centralia	22	----	4	6	15	20	2	----	13	----	3	74	137	607	744
Continental Washery	22	----	1	----	4	2	----	----	6	----	1	21	35	----	35
Total	----	----	5	6	19	22	2	----	19	----	4	95	172	607	779

Phila. & Reading Coal & Iron Co.															
Potts	22	1	1	2	11	87	2	----	28	8	6	97	193	450	643
Grand total	----	2	7	9	33	65	5	----	47	11	12	213	404	1,122	1,526
DAUPHIN COUNTY															
Susquehanna Collieries Co.															
Short Mountain	25	1	1	6	15	42	27	3	8	----	18	165	286	653	939
Short Mountain Washery	25	----	2	----	----	7	----	----	1	----	----	23	33	----	33
Williamstown	25	1	2	5	31	28	9	8	2	----	11	204	301	992	1,293
Grand total	----	2	5	11	46	77	36	11	11	----	29	392	620	1,645	2,265
LACKAWANNA COUNTY															
Beardslee & Lewis Coal Co.															
Stone Quarry	1	1	----	----	----	----	----	----	----	----	1	5	7	34	41
Childs Coal Co.															
No. 1 Mine	2	----	----	----	1	----	----	1	----	----	----	----	2	9	11
D. F. M. Co.															
No. 1 Mine	2	----	----	----	----	1	----	----	----	----	----	2	3	17	20
Dunmore Coal Co.															
Dunmore	6	1	1	1	1	1	----	----	----	----	1	2	8	30	38
John Gibbons Coal Co.															
Gibbons	5	----	2	1	1	17	----	4	11	----	4	26	66	21	87
Glen Alden Coal Co.															
Archbald	5	1	1	2	15	10	2	----	11	3	3	96	144	865	1,009
Baker	5	1	1	5	28	14	6	1	11	----	3	102	172	1,000	1,172
Diamond	3	1	2	4	35	16	5	1	12	----	3	172	251	1,138	1,389
Hampton Plants	5	1	3	1	----	14	1	----	----	----	1	45	66	3	69
Hyde Park	5	1	1	1	11	11	3	----	14	4	4	132	182	1,050	1,232
Pyne	4	1	2	2	6	8	1	----	49	4	3	106	182	845	1,027
Storrs	6	2	8	7	32	25	7	1	44	12	6	237	381	2,058	2,439
Taylor	4	1	1	3	26	5	3	----	12	10	5	154	220	974	1,194
Total	----	9	19	25	153	103	28	3	153	33	28	1,044	1,598	7,933	9,531
Glendale Anthracite Collieries															
Glendale	1	1	----	2	2	7	1	----	----	----	3	15	31	328	359
Green Ridge Coal Co.															
Green Ridge	4	1	1	1	2	3	1	----	1	----	1	10	21	105	126
Grove Hill Coal Co.															
Lackawanna	6	----	----	----	----	1	----	----	----	----	----	4	5	48	53
Hillside Coal & Iron Co.															
Forest City[2]	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Hudson Coal Co.															
Clinton[3]	1	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Coal Brook	2	1	3	6	12	24	10	9	----	9	21	225	320	1,218	1,538
Eddy Creek	3	----	1	4	5	20	1	9	----	1	10	107	158	1,513	1,671

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
LACKAWANNA COUNTY—Cont'd.															
Hudson Coal Co.—Cont'd.															
Gravity Slope	2	1	2	5	8	22	6	1	8	11	12	157	233	890	1,123
Greenwood	5	1	1	3	8	16	6	1	----	8	7	57	108	278	386
Jermyn	2	1	1	3	8	9	5	----	----	1	14	78	120	885	1,005
Marvine	3	2	6	6	11	48	14	3	----	34	27	225	376	1,396	1,772
Olyphant	6	3	4	5	7	56	16	11	----	40	28	268	438	1,410	1,848
Powderly	2	1	3	3	9	21	5	1	----	37	18	190	288	838	1,126
Total	----	10	21	35	68	216	63	35	8	141	137	1,307	2,041	8,428	10,469
Humbert Coal Co.															
Sunnyside	1	1	1	1	2	5	1	1	5	5	2	26	50	175	225
Jermyn & Co.															
Jermyn	4	1	1	3	6	20	1	2	21	13	6	62	136	501	637
Lackawanna Anthracite Mining Co.															
Richmondale	1	1	1	1	2	2	1	1	2	----	1	15	27	161	188
Lackawanna Coal Co. Ltd.															
Lackawanna	6	1	1	2	3	9	1	1	----	----	2	59	79	389	468
Lackawanna Valley Fuel Co.															
Glenwood Washery	2	1	----	----	----	----	----	----	2	----	----	6	9	----	9
Old Buffalo	1	1	1	2	----	----	1	1	----	----	1	14	21	20	41
Throop Washery	6	1	1	----	1	1	----	----	6	----	1	14	25	----	25
Total	----	3	2	2	1	1	1	1	8	----	2	34	55	20	75
Langcliffe Collieries Inc.															
Boland	1	1	1	1	2	3	----	2	----	----	1	5	16	95	111
Tappans	2	----	1	1	4	4	1	4	----	----	1	25	41	108	149
Total	----	1	2	2	6	7	1	6	----	----	2	30	57	203	260
Lehigh Valley Coal Co.															
Broadwell	7	----	1	1	1	1	----	----	----	----	----	10	14	99	113

Lincoln Coal Co.															
Oak Run	2	1		1	1	2					1	9	15	55	70
Meadowside Coal Co.															
Meadowside	6		1	1	2	1			1		3	12	21	105	126
Mid-City Coal Co.															
Bulls Head	3	1	1	1	2	5	1		6	1	4	10	32	146	178
Mine Run Coal Co.															
Devil's Eyebrow	1	1				2		2			1	1	7	30	37
Moffat Coal Co.															
Moffat	5	1	1	1		2	1	2	1		1	13	23	130	153
Murrin Coal Co.															
Fallbrook	1	1		1		1			1		2	6	12	75	87
Namura Coal Co.															
Namura	5	1									1		2	12	14
Pennsylvania Coal Co.															
Erie	2	1	1	1	2	3					1	26	35	419	454
No. 1	6	1	1	2	31	24	13	9	51	2	2	150	286	1,182	1,468
No. 5	4	1	1	2	7	9	2		28	8	5	41	104	439	543
Old Forge	4	1	1	2	23	24	10	7	23		1	111	203	829	1,032
Underwood	6	1	1	4	23	26	14	2	37	2	8	132	250	1,124	1,374
Total		5	5	11	86	86	39	18	139	12	17	460	878	3,993	4,871
Price-Pancoast Coal Co.															
Pancoast	4	1	1	2	6	11	2	1	15	10	1	84	134	413	547
Public Service Coal Co.															
Marshwood	6		1	1	2	2	1	1	5		2	17	32	200	232
Racket Brook Coal Co.															
Racket Brook	1	1	2	2	4	10	1	1	5	3	8	43	80	269	349
Raub Coal Co.															
Austin Tunnel	7				1							8	9	123	132
Roaring Brook Coal Co.															
Roaring Brook	4	1		1	1	1					1		5	53	58
Scranton Coal Co.															
Capouse	4		1	1	1	10	1				1	48	63	518	581
Johnson	6		1	3	7	15	1	2	16		2	123	170	496	666
Mt. Pleasant	4		1		1	6					2	14	24	214	238
Ontario	6		1	7	11	15	6	5	4	11	4	87	151	455	606
Pine Brook	4		1	4	1	13	4		3	3	3	112	144	1,044	1,188
Raymond	2		1	2		14	1	6			1	26	51	439	490
Richmond No. 3	6			1	2	11	1				1	12	28	117	145
Riverside	2		1	2	3	20	3	1	10	2	1	44	87	379	466
West Ridge	3										1	1	2	31	33
Total			7	20	26	104	17	14	33	16	16	467	720	3,693	4,413

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
LACKAWANNA COUNTY—Cont'd.															
South Penn Collieries Co.															
Legitts Creek	3		1	4	12	28	9			1	7	35	97	642	739
Von Storeh	3	1	1	3	15	10	14	5		1	15	89	154	610	764
Total		1	2	7	27	38	23	5		2	22	124	251	1,252	1,503
Speneer Coal Co.															
Speneer	6	1	1	1	2	3	1				3	13	25	184	209
Sunrise Coal Co.															
Sunrise Stripping	2			1		3		4					8		8
Temple Coal Co.															
Northwest	1	1	2	2	3	14	1	4	13		2	50	92	296	388
Sterriek Creek	2	1	2	2	4	15	3	2	23		4	117	173	537	710
Total		2	4	4	7	29	4	6	36		6	167	265	833	1,098
Throop Coal Co.															
Crippen	6	1			1	1					1		4	16	20
West Jermyn Coal Co.															
West Jermyn	2			1								2	3	19	22
Grand total		50	79	133	417	695	189	109	451	236	280	4,087	6,726	30,102	36,828

[2] See Susquehanna County.
[3] See Wayne County.

LUZERNE COUNTY

Alden Coal Co.															
Alden	14	1	1	3	7	15	3	2	3	3	9	83	130	682	812
Barry Coal Co.															
Barry Stripping	12	1	1	1	1	12		2	5			14	37		37

Buck Mountain Coal Mining Co.															
Gowen	15	1	1	2	4	6	-------	2	5	-------	2	32	55	137	192
Clifford Coal Co.															
Clifford	7	1	1	-------	2	2	-------	-------	1	-------	-------	28	35	----------	35
Clifford Stripping	7	-------	1	-------	-------	7	-------	2	-------	-------	-------	6	16	----------	16
Total	----------	1	2	-------	2	9	-------	2	1	-------	-------	34	51	----------	51
John Conlon Coal Co.															
Conlon	10	-------	1	1	1	1	1	-------	-------	-------	1	2	8	44	52
Madeira	10	1	2	3	4	4	1	2	2	7	3	26	55	335	390
Total	----------	1	3	4	5	5	2	2	2	7	4	28	63	379	442
Coxe Brothers & Co., Inc.															
Deringer & Tombicken	15	-------	2	5	11	9	4	3	-------	-------	4	78	116	723	839
Drifton	15	-------	5	6	10	56	5	11	5	5	4	144	251	344	595
Eckley & Buck Mountain	15	-------	2	2	8	31	3	12	-------	-------	3	50	111	286	397
Total	----------	-------	9	13	29	96	12	26	5	5	11	272	478	1,353	1,831
R. M. Cranston															
Cranston	8	1	-------	1	1	-------	-------	-------	-------	-------	-------	1	4	21	25
Charles M. Dodson & Co.															
Beaver Brook	16	1	5	4	6	12	6	6	4	3	7	101	155	251	406
East Alden Mining Co.															
East Alden	14	1	1	-------	1	-------	-------	-------	1	-------	1	4	9	39	48
East Boston Coal Co.															
East Boston	10	1	2	2	9	16	2	1	41	2	6	48	130	494	624
Fox Hill Mining Co.															
Fox Hill	10	1	-------	-------	1	1	-------	-------	-------	-------	-------	----------	3	40	43
Glen Alden Coal Co.															
Auchineloss	14	-------	1	-------	1	12	-------	1	-------	-------	-------	37	52	529	581
Avondale	13	1	1	3	17	15	4	1	15	-------	3	86	146	435	581
Bliss	14	1	7	3	37	23	5	2	25	-------	4	93	200	921	1,121
Hallstead	7	-------	1	1	1	3	1	-------	-------	-------	1	40	48	409	457
Loomis	13	1	3	5	59	24	14	5	14	12	6	182	325	1,533	1,858
Loomis Power Plant	13	1	4	1	-------	10	4	-------	-------	-------	2	49	71	----------	71
Pettebone	10	1	3	5	19	20	2	4	15	5	5	126	205	963	1,168
Truesdale	13	3	3	3	55	26	8	9	33	-------	8	144	292	2,318	2,610
Woodward	12	3	7	5	22	32	10	1	18	-------	15	170	283	1,319	1,602
Total	----------	11	30	26	211	165	48	23	120	17	44	927	1,622	8,427	10,049
Grand Tunnel Coal Co.															
West Nanticoke	13	1	1	2	5	4	1	-------	-------	-------	4	32	50	203	253
Haddock Mining Co.															
Black Diamond	10	1	2	2	5	9	3	3	-------	4	3	32	64	421	485

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
LUZERNE COUNTY—Cont'd.															
Hanover Coal Co.															
Cullen Washery	12		1	2	1	2	1		2		1	13	23		23
Harris-Denly Coal Co.															
Kintz	9	1			1	3			2			2	9	29	38
Hazle Brook Coal Co.															
Hazle Brook	15	1	2	1	5	19	2	3	9	2	2	64	110	1	111
Upper Lehigh	15	1	1	2	2	25	3	3	13	4	3	46	103	153	256
Total		2	3	3	7	44	5	6	22	6	5	110	213	154	367
Hillside Coal & Iron Co.															
Butler	7	1	1	5	20	30	13	15	13	3	1	127	229	1,027	1,256
Hudson Coal Co.															
Baltimore No. 5	11	2	3	4	17	55	12			24	22	153	292	612	904
Baltimore Tunnel	11			1		9	3					6	19	355	374
Laflin	7	1	2	1	4	13	1	1			3	62	88	211	299
Loree No. 5—Boston	12	3	5	8	23	83	11			30	34	301	498	2,049	2,547
Pine Ridge	10	3	4	7	19	53	14	1		35	23	213	372	1,507	1,879
Total		9	14	21	63	213	41	2		89	82	735	1,269	4,734	6,003
Jeddo-Highland Coal Co.															
Highland No. 2	15		1	2		11		2			2	33	51	127	178
Highland No. 5	15		1	2	5	18		2		21	2	108	159	568	727
Jeddo No. 4	15	1	3	7	11	29		14		16	4	221	306	785	1,091
Jeddo No. 7	15		1	2	2	8					2	36	51	106	157
Total		1	6	13	18	66		18		37	10	398	567	1,586	2,153
John Ames Coal Co.															
Franklin Washery	11	1	1		1	4			5		1	20	33		33

Kingston Coal Co.															
Gaylord	12	--------	1	2	13	8	1	1	--------	18	2	54	100	208	308
Kingston No. 2	12	1	2	5	20	23	4	4	--------	26	2	118	205	577	782
Kingston No. 4	9	1	1	5	12	29	1	5	--------	21	3	111	189	522	711
Total	----------	2	4	12	45	60	6	10	--------	65	7	283	494	1,307	1,801
Langcliffe Collieries, Inc.															
Avoca	7	--------	2	2	4	9	1	1	15	--------	4	49	87	186	273
George F. Lee Coal Co.															
Chauncey	13	1	1	2	3	7	1	--------	--------	--------	1	28	44	269	313
Lehigh Coal Co.															
Hazle Mountain No. 5	15	1	2	1	2	6	1	4	6	4	--------	40	67	----------	67
Lehigh Coal & Navigation Co.															
Cranberry	16	2	9	7	18	34	23	16	1	3	8	232	353	737	1,090
Lehigh Valley Coal Co.															
Dorrance	11	--------	2	1	3	26	2	1	12	13	5	98	163	889	1,052
Exeter	9	--------	3	4	12	20	4	2	6	--------	5	87	143	689	832
Franklin	11	--------	2	4	7	15	1	1	4	7	4	72	117	502	619
Hazleton No. 1	15	--------	4	2	20	21	1	1	8	--------	4	80	141	465	606
Hazleton Shaft & Stockton	15	--------	6	4	25	28	6	3	18	8	6	183	287	498	785
Heidelberg	7	--------	3	3	8	14	2	2	3	--------	3	39	80	153	233
Maltby	9	1	3	3	8	21	2	2	8	--------	4	78	130	476	606
Mineral Spring	10	--------	2	2	4	18	1	2	2	3	3	65	102	413	515
Prospect	9	1	3	3	13	29	1	2	14	7	5	83	161	661	822
Prospect (Henry)	10	--------	1	1	1	34	1	3	--------	--------	2	45	88	666	754
Seneca	7	--------	3	4	12	27	3	2	5	--------	4	71	131	374	505
Spring Mountain	16	--------	4	2	16	31	7	2	14	2	3	141	222	225	447
Warrior Run	13	--------	1	1	4	11	1	1	--------	--------	1	18	38	87	125
Westmoreland	9	--------	3	3	7	12	1	1	8	--------	4	48	87	302	389
William A.	7	--------	1	1	10	7	1	--------	--------	--------	2	28	50	311	361
Total	----------	2	41	38	150	317	34	25	102	40	55	1,136	1,940	6,711	8,651
Lehigh & Wilkes-Barre Coal Co.															
Buttonwood No. 22	13	--------	1	2	8	33	2	2	17	--------	3	150	218	813	1,031
Hollenback No. 2	11	--------	1	2	3	17	1	2	17	3	5	112	163	677	840
Lance No. 11	12	--------	1	3	7	21	1	--------	36	1	4	117	191	931	1,122
Maxwell No. 20	13	--------	1	2	10	36	1	1	25	3	4	174	257	1,356	1,613
Nottingham No. 15	12	--------	1	2	8	37	1	1	17	2	5	120	194	806	1,000
So. Wilkes-Barre No. 5	11	--------	1	2	5	32	1	1	24	7	6	102	181	956	1,137
Stanton No. 7	11	--------	1	3	9	40	2	3	27	5	5	191	286	1,440	1,726
Sugar Notch No. 9	13	--------	1	2	6	21	1	1	17	2	4	119	174	916	1,090
Wanamie No. 18	14	--------	1	2	2	30	1	2	31	1	4	178	252	1,176	1,428
Total	----------	--------	9	20	58	267	11	13	211	24	40	1,263	1,916	9,071	10,987

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
LUZERNE COUNTY—Continued															
Lehigh-Wyoming Valley Coal Co.															
Florence	7	1	1	1	3	4	-------	2	6	-------	1	23	42	142	184
Lynott & Brown															
Stripping	8	1	1	-------	-------	-------	-------	-------	-------	-------	1	12	15	----------	15
Miners Mills Coal Mining Co.															
Miners Mills	10	1	1	1	1	3	-------	-------	-------	-------	1	10	18	141	159
Mt. Lookout Coal Co.															
Mt. Lookout	9	1	1	2	6	14	3	1	8	-------	3	61	100	369	469
Nanticoke Valley Coal Co.															
Nanticoke No. 5 Washery	14	1	1	-------	4	2	-------	2	1	-------	-------	42	53	----------	53
Pardee Brothers & Co., Inc.															
Beaver Brook	16	-------	1	2	4	9	3	2	-------	-------	2	18	41	216	257
Lattimer	15	1	1	5	24	37	15	7	4	15	13	164	286	671	957
Total	----------	1	2	7	28	46	18	9	4	15	15	182	327	887	1,214
Pennsylvania Coal Co.															
Central	7	1	1	2	7	12	4	-------	-------	-------	1	38	66	442	508
Ewen	8	1	2	5	25	42	19	1	40	-------	2	157	294	1,164	1,458
No. 6	8	1	1	6	23	37	7	2	37	-------	6	130	250	1,299	1,549
No. 9	8	1	1	5	34	46	18	1	56	1	3	162	328	1,352	1,680
No. 14	8	1	1	5	33	31	15	2	32	2	9	158	289	1,282	1,571
Total	----------	5	6	23	122	168	63	6	165	3	21	645	1,227	5,539	6,766
Pittston Coal Mining Co.															
Hadleigh	13	1	2	1	3	11	1	1	1	5	1	17	44	121	165
Plymouth Red Ash Coal Co.															
Red Ash	12	-------	-------	-------	1	5	1	-------	4	-------	2	9	20	49	69
T. F. Quinn Coal Co.															
Consolidated	7	1	1	1	2	8	-------	-------	27	3	2	13	58	123	181

Raub Coal Co.															
Louise	10	1	1	2	2	2	1	1	8	2	3	34	57	179	236
Sandy Run Coal Co.															
Sandy Run	15	1	1	1	8	8	1	2	11		3	41	77	130	207
Scranton Anthracite Coal Co.															
Barnum	7	1	1	1	2	2	2			4	1	25	39	68	107
Pickaway	7		1	1	1	1		1				7	12	56	68
Total		1	2	2	3	3	2	1		4	1	32	51	124	175
E. S. Stackhouse Coal Co.															
Salem	14	1	1	2	1	3			4	2	2	19	35	80	115
Sullivan & Flynn Coal Co.															
Sullivan & Flynn	11				2						1	4	7	40	47
Suscon Coal Co.															
Suscon	9		1	1		1		2				3	8	14	22
Susquehanna Collieries Co.															
No. 6	14	1	4	10	24	51	13	13	22		14	231	383	1,076	1,459
No. 7	14	2	4	13	20	80	37	8	14		18	314	510	1,867	2,377
Total		3	8	23	44	131	50	21	36		32	545	893	2,943	3,836
Temple Coal Co.															
Harry E.	9	2	2	4	3	27	3	2	19		4	111	177	725	902
Terry Coal Co.															
Black Creek Washery	13	1										3	4		4
Troy Coal Co.															
Troy	9	1	1	1	1	1			2		1	4	12	46	58
West End Coal Co.															
West End	14	1	1	5	16	10	10	2	7		4	141	197	659	856
Wolf Collieries Co., Inc.															
Wolf Mines	16	1		1	1	3		1			1		8	63	71
Yatesville Coal Co.															
Yatesville	9	1	1	2	2	2	1	1				10	20	105	125
Grand total		73	187	266	931	1,362	368	233	869	346	405	8,005	13,545	50,737	64,282
NORTHUMBERLAND COUNTY															
Colonial Colliery Co.															
Colonial	23	2	5	9	14	16	25	4	4	4	5	114	202	975	1,177
Excelsior Coal Co.															
Corbin	24	1	3	2	5	10	2	2	48	15	2	77	167	100	267
Lehigh Valley Coal Co.															
Sayre	22		3	3	15	34	6	4	20		4	94	183	641	824
Northumberland Mining Co.															
Enterprise	24	1	2	6	12	6	1	1		2	5	77	113	658	771

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
NORTHUMBERLAND COUNTY—Cont'd.															
Phila. & Reading Coal & Iron Co.															
Alaska	23	1	1	1	4	27	1	2			5	48	90	482	572
Bear Valley	24	1	1	4	3	33	3	5	27	14	6	139	236	599	835
Burnside	24	1	1	2	13	35	1		43		7	144	247	779	1,026
Henry Clay	24	1	1	3	9	38	1	3	31		8	120	215	513	728
Locust Spring	23	1	1	2	15	36	2	9	57	3	8	189	323	794	1,117
North Franklin	24	1	1	1	9	27	1	5	18	3	3	90	159	232	391
Reliance	23	1	1	2	7	31	1	1	31		6	92	173	476	649
Total		7	7	15	60	227	10	25	207	20	43	822	1,443	3,875	5,318
Shamokin Coal Co.															
Neilson	24	1	1	2	5	11	1	1	3		4	59	88	242	330
Shamokin Colliery Co.															
Washery	23	1	1	1	4	4		2	8		1	56	78		78
South Penn Collieries Co.															
Katherine	24	1	1	1	2	11	1			1	1	17	36	53	89
Stevens Chapin Coal Co.															
Washery	23	1	1	1	2	4			2	2	1	30	44		44
Susquehanna Collieries Co.															
Cameron	24		2	4	18	19	3	3	17		11	129	206	632	838
Luke Fidler	24		4	6	17	28	4	2	13		12	160	246	628	874
Pennsylvania	23	1	2	4	16	18	9	2	17		13	119	201	804	1,005
Richards	23		3	4	14	24	6	6	22		13	130	222	911	1,133
Scott	23		2	6	16	20	4	1	22		13	118	202	787	989
Total		1	13	24	81	109	26	14	91		62	656	1,077	3,762	4,839
Grand total		16	37	64	200	432	72	53	383	44	128	2,002	3,431	10,306	13,737

SCHUYLKILL COUNTY															
Black Heath Coal Co.															
Black Heath	19	1	1	1	--	1	--	--	2	--	--	9	15	12	27
Buck Run Coal Co.															
Buck Run	19	1	1	2	8	11	1	--	10	--	5	118	157	484	641
Chestnut Hill Coal Co.															
Chestnut Hill	18	1	1	1	1	1	--	--	4	1	1	4	15	37	52
Coxe Brothers & Co., Inc.															
Oneida	16	--	1	4	8	23	6	4	--	--	3	68	117	367	484
East Bear Ridge Colliery Co.															
East Bear Ridge	22	1	1	2	11	7	3	2	14	7	4	70	122	336	458
Frackville Coal Co.															
Lucanna	18	1	1	1	2	3	1	4	5	1	2	18	39	80	119
Gorman & Campion Coal Co.															
Bell	18	1	2	1	2	3	1	1	5	--	1	21	38	75	113
Haddock Mining Co.															
Candlemas	16	1	10	6	9	23	4	11	3	7	9	118	201	738	939
Salem	18	--	--	1	--	1	--	--	--	--	--	2	4	40	44
Total		1	10	7	9	24	4	11	3	7	9	120	205	778	983
Harleigh-Brookwood Coal Co.															
Lawrence	22	1	1	5	19	19	4	2	25	6	4	116	202	535	737
Thomas	21	1	1	2	7	7	2	3	20	6	4	81	134	254	388
Total		2	2	7	26	26	6	5	45	12	8	197	336	789	1,125
Hazle Brook Coal Co.															
Girard	22	1	1	1	3	14	2	1	--	5	3	27	58	111	169
Maryd	18	1	1	2	4	27	1	1	7	--	3	67	114	228	342
Raven Run	21	1	1	2	15	23	2	2	8	10	4	100	168	180	348
Westwood	25	1	3	1	5	8	1	--	6	4	2	38	69	183	252
Total		4	6	6	27	72	6	4	21	19	12	232	409	702	1,111
Laurel Coal Mining Co.															
Bickle	22	1	1	1	1	4	1	--	--	--	1	12	22	57	79
Lehigh Coal & Navigation Co.															
Alliance	18	3	3	3	9	22	10	1	13	3	3	108	178	523	701
Coaldale	17	2	6	7	24	59	28	15	--	1	8	231	381	1,109	1,490
Greenwood	17	3	3	3	23	19	17	6	7	2	6	137	226	603	829
Rahn	17	1	2	2	12	31	19	6	--	1	3	101	178	603	781
Tamaqua	18	1	2	2	13	34	12	4	6	1	6	113	194	658	852
Total		10	16	17	81	165	86	32	26	8	26	690	1,157	3,496	4,653
Lehigh Valley Coal Co.															
Buck Mountain	18	--	1	5	18	30	3	2	4	2	4	96	165	616	781
Packer No. 2	21	--	--	2	1	5	--	--	--	--	--	8	16	346	362

Table 8—Number of each class of employes outside, 1928—Continued

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
SCHUYLKILL COUNTY—Cont'd.															
Lehigh Valley Coal Co.—Cont'd.															
Packer No. 3	21			1		3						1	5	183	188
Packer No. 4	21	1	1	4	19	29	5	4	6	3	5	113	190	199	389
Packer No. 5	21	1	2	4	18	16	7	1	8	4	4	120	185	415	600
Park	20		2	6	12	38	8	9	5		2	159	241	704	945
Springdale Washery	20		1		3	8		1	3		1	35	52		52
Total		2	7	22	71	129	23	17	26	9	16	532	854	2,463	3,317
Lehigh & Wilkes-Barre Coal Co.															
Audenried No. 4	16	1	2	2		51			27		4	200	287	767	1,054
Honey Brook	16		3	4	21	3	2	10			8	31	82	63	145
Total		1	5	6	21	54	2	10	27		12	231	369	830	1,199
Locust Mountain Coal Co.															
Weston	21	1	6	7	11	38	10	25	16	14	16	222	366	275	641
Lytle Coal Co.															
Lytle	19	1	1	2	16	46	5	1	17	5	14	117	225	525	750
Mill Creek Coal Co.															
Morea	18	2	7	7	41	21	1	4	22	5	4	79	193	515	708
Phila. & Reading Coal & Iron Co.															
Bancroft	22		1	2	3	7	2	1	9	6	1	36	68	75	143
Bast	22	1	1	3	11	49	2	1	30	2	5	125	230	395	625
Brookside	25	1	2	4	15	50	1	5	18	2	10	172	280	785	1,065
Eagle Hill	18	1	1	3	12	28	1	4	25	9	5	127	216	615	831
Ellangowan	20	1	2	4	7	41	4	1	29	14	8	161	272	605	877
Gilberton	22	1	2	3	10	44	2	2	29	7	9	126	235	610	845
Good Spring	25	1	3	3	18	34	5	9	22	7	7	141	250	618	868

Hammond	21	1	1	3	10	36	4	5	18	11	6	87	182	431	618
Lincoln	25	1	1	2	14	27	2	7	15	6	8	111	194	796	990
Mahanoy City	20	1	1	2	8	29	-------	1	20	4	7	92	165	459	624
Maple Hill	20	1	1	4	4	62	4	3	31	2	6	174	292	728	1,020
Middle Creek Washery	25	1	1	1	1	11	1	3	-------	-------	1	23	43	----------	43
North Mahanoy	20	1	1	3	10	36	-------	-------	26	8	6	104	195	486	681
Otto	19	1	1	4	14	19	1	1	22	8	6	142	219	474	693
Phoenix Park	19	-------	1	-------	-------	-------	-------	-------	-------	-------	1	7	9	----------	9
Pine Forest Washery	18	-------	1	1	5	12	1	1	5	3	2	66	97	----------	97
Pine Knot	19	1	3	5	13	72	1	14	46	-------	8	233	396	785	1,181
Reevesdale	18	-------	1	2	8	23	2	3	-------	17	4	80	140	192	332
Shenandoah City	21	1	1	3	3	50	4	4	12	20	12	131	241	751	992
Silver Creek	18	1	1	3	16	29	4	2	33	5	6	136	236	682	918
Tunnel Ridge	20	1	1	3	10	37	1	-------	9	15	7	108	192	492	684
Wadesville	18	1	1	2	15	49	2	1	27	6	9	132	245	571	816
West Shenandoah	21	1	1	5	10	39	1	7	27	3	8	143	245	736	981
Total	----------	19	30	65	217	784	45	75	453	155	142	2,657	4,642	11,286	15,928
Pine Hill Coal Co.															
Oak Hill	19	1	1	5	14	11	12	9	2	11	6	126	198	539	737
Pine Hill	19	1	1	5	18	17	16	4	16	9	6	130	223	746	969
Total	----------	2	2	10	32	28	28	13	18	20	12	256	421	1,285	1,706
Repplier Coal Co.															
New Castle	19	1	1	2	5	9	2	3	10	-------	3	57	93	386	479
Saint Clair Coal Co.															
Saint Clair	18	1	5	4	11	36	7	4	1	-------	5	137	211	339	550
Sherman Coal Corp.															
Sherman	19	1	1	1	3	5	3	1	2	4	6	28	55	133	188
South Penn Collieries Co.															
Randolph	18	1	1	2	3	6	2	2	-------	3	2	22	44	158	202
Susquehanna Collieries Co.															
Wm. Penn	21	1	2	7	13	33	5	-------	12	1	9	75	158	427	585
Grand total	----------	57	111	185	620	1,529	248	218	739	271	313	5,972	10,263	25,835	36,098
SULLIVAN COUNTY															
Connell Anthracite Mining Co.															
Connell	16	1	1	3	8	18	3	5	10	5	2	48	104	361	465
Northern Anthracite Coal Co.															
Murray	10	1	2	1	1	6	-------	-------	3	4	1	3	22	81	103
Grand total	----------	2	3	4	9	24	3	5	13	9	3	51	126	442	568

Table 8—Number of each class of employes outside, 1928—Concluded

Operators and Collieries	District	Superintendents	Foremen	Blacksmiths	Carpenters	Engineers and firemen	Machinists	Trackmen	Slatepickers (boys)	Slatepickers (men)	Office employes	All other employes	Total outside	Total inside	Grand total inside and outside
SUSQUEHANNA COUNTY															
Hillside Coal & Iron Co.															
Forest City	1	1	1	3	4	18	6	4	22	1	6	87	153	640	793
Hudson Coal Co.															
Clinton [1]	1														
[1] See Wayne County.															
WAYNE COUNTY															
Hillside Coal & Iron Co.															
Forest City [2]	1														
Hudson Coal Co.															
Clinton	1	1	2	2	2	14	5			2	11	77	116	391	507
Vandling Coal Co.															
Northeast	1	1				1						1	3	12	15
Grand total		2	2	2	2	15	5			2	11	78	119	403	522
[2] See Susquehanna County.															
Grand total all counties		215	449	694	2,348	4,876	1,008	696	2,569	932	1,206	21,566	36,559	124,162	160,721

TABLE
OF
INSPECTION DISTRICTS 1927-1928

District	*Inspector*	*Headquarters*
1	William Reid	Carbondale
2	P. J. Moore	Carbondale
3	L. M. Evans	Scranton
4	Augustus McDade	Taylor
5	S. J. Phillips	Scranton
6	*David T. Williams	Scranton
7	Bert Golden	Scranton
8	Joseph J. Walsh	Wilkes-Barre
9	Edwin C. Curtis	Kingston
10	John B. Corgan	Kingston
11	Thomas J. Williams	Kingston
12	D. T. Davis	Wilkes-Barre
13	Frank Kettle	Nanticoke
14	John L. Picton	Plymouth
15	David J. Roderick	Hazleton
16	J. J. Stickler	Hazleton
17	William J. Clements	Coaldale
18	Timothy A. Ryan	Pottsville
19	Charles G. Fromme	Pottsville
20	P. C. Fenton	Mahanoy City
21	William R. Bottomley	Shenandoah
22	James Quigley	Mount Carmel
23	B. I. Evans	Mount Carmel
24	P. J. Friel	Shamokin
25	Charles J. Price	Lykens

*Died December 31, 1928.

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WILLIAM W. INGLIS
FEB 7 1931
PRESIDENT